2025 日本免疫学会総会・学術集会記録 第54巻 アクリエひめじ プログラム

2025

日本免疫学会総会・学術集会記録

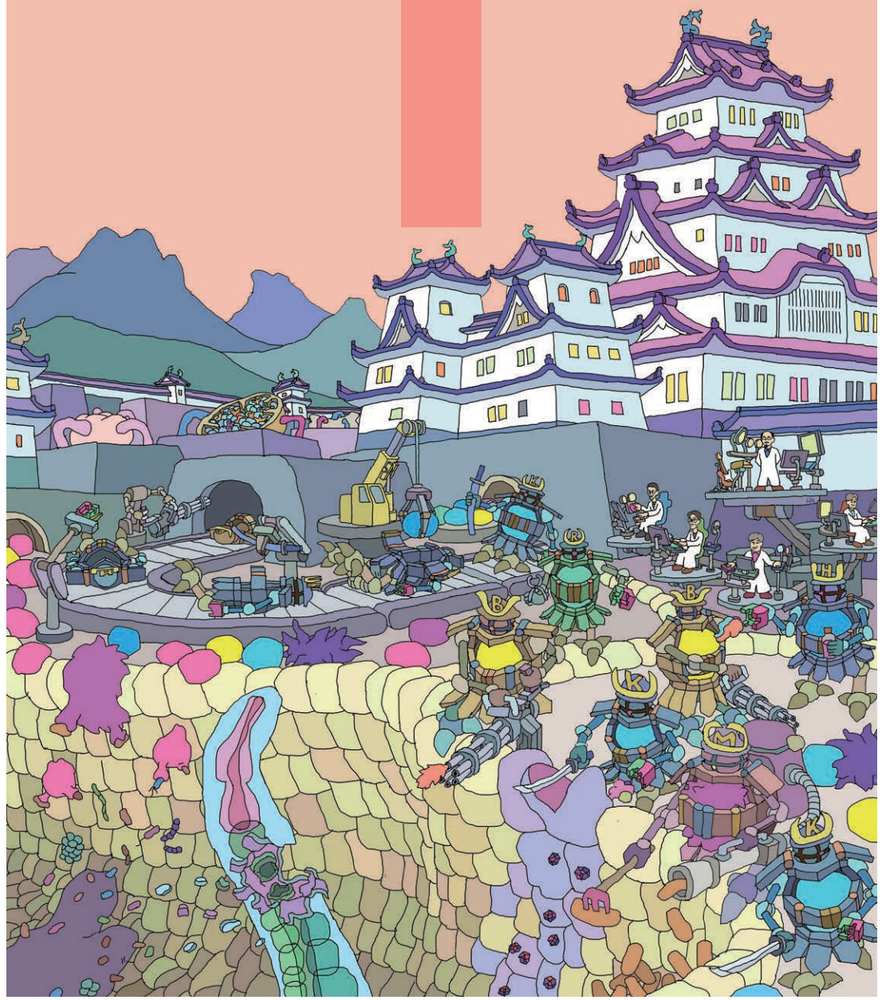
The 54th Annual Meeting of The Japanese Society for Immunology

第 54 巻

Program

Arcrea HIMEJI

December 10 - 12, 2025



特定非営利活動法人　日本免疫学会

Proceedings of the Japanese Society for Immunology (JSI)
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温度応答性培養器材

UpCell® Flask

CellSeed
Regenerate the Future

酵素フリーでダメージゼロ
免疫細胞の本来の力をそのままに

UpCell®で回収したRAW264.7細胞の膜タンパク質保持量評価

方法

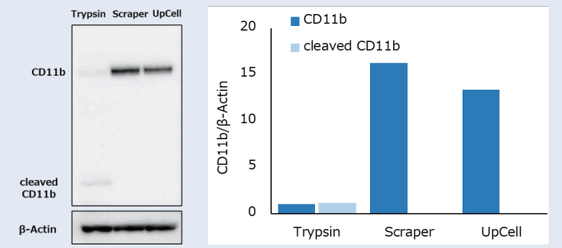
① 9.0×10⁵個の細胞をΦ6cmの*UpCell*®またはTCPSにそれぞれ播種した。

② 翌日、器材をインキュベーターから取り出し*UpCell*®では温度処理（20℃、30min）、TCPSではトリプシン処理（37℃、5min）またはスクレーパーで細胞を剥離、回収した。

③ ウエスタンブロット法を用いてCD11bならびにF4/80を標識、検出した。

④ それぞれの全長及び切断された膜タンパク質量をβ-Actin量及びトリプシンで回収した細胞の全長膜タンパク質量で規格化した。

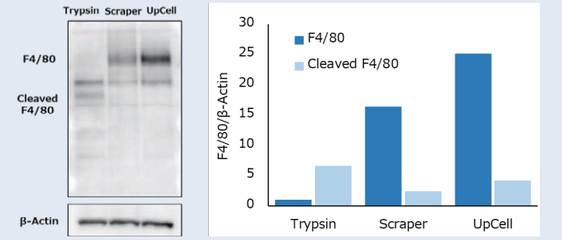
図1. 種々細胞回収法によるCD11bのウエスタンブロット評価



結果

UpCell®で回収したRAW264.7細胞の全長CD11b、F4/80保持量はトリプシン処理で回収した細胞と比較して各々13倍、25倍以上であり、温度処理で細胞が温和に回収できることが示された(図1、2)。

図2. 種々細胞回収法によるF4/80のウエスタンブロット評価



無料サンプル受付中！
下記のQRコードをアクセス

- 樹状細胞やマクロファージなど、表面マーカーを壊さずにインタクトな細胞を回収
- 細胞膜の機能を維持したまま、免疫応答やサイトカイン解析の信頼性を向上
- 大量培養に対応、免疫細胞治療や前臨床モデル構築にも最適なフラスコタイプ

【サンプル・お問合せ】　【製品の詳細】

株式会社セルシード
〒135-0064
東京都江東区青海2-5-10
テレコムセンタービル東棟 15F
Email：sales.ccw@cellseed.com
URL：www.cellseed.com

製品に関するお問い合わせ
またはサンプルのご依頼は
QRコードよりアクセス下さい

The 54th Annual Meeting of The Japanese Society for Immunology

December10-12, 2025
Arcrea HIMEJI

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Hiroshi Kawamoto（Kyoto University）

Vice Presidents

Yoshinaga Ito（Kyoto University）
Kenji Kabashima（Kyoto University）
Akio Morinobu（Kyoto University）
Hideki Ueno（Kyoto University）

Program Committee, JSI

(~December 31, 2026)

Motoko Kimura	Masaaki Murakami	Reiko Shinkura	Osamu Takeuchi*

(~December 31, 2028)

Shohei Hori	Atsushi Kumanogoh	Taku Okazaki	Noriko Sorimachi

*Chair

Program Committee for the Annual Meeting

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Akio Morinobu	Yasuhiro Murakawa	Hiroyoshi Nishikawa	Takeshi Nitta
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*Chair

The 54th Annual Meeting of the Japanese Society for Immunology
Congress Secretariat

A&E Planning Co.,Ltd.
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Program of The Japanese Society for Immunology (JSI)

Vol. 54

Contents

The 54th Annual Meeting of the Japanese Society for Immunology
Program at a glance

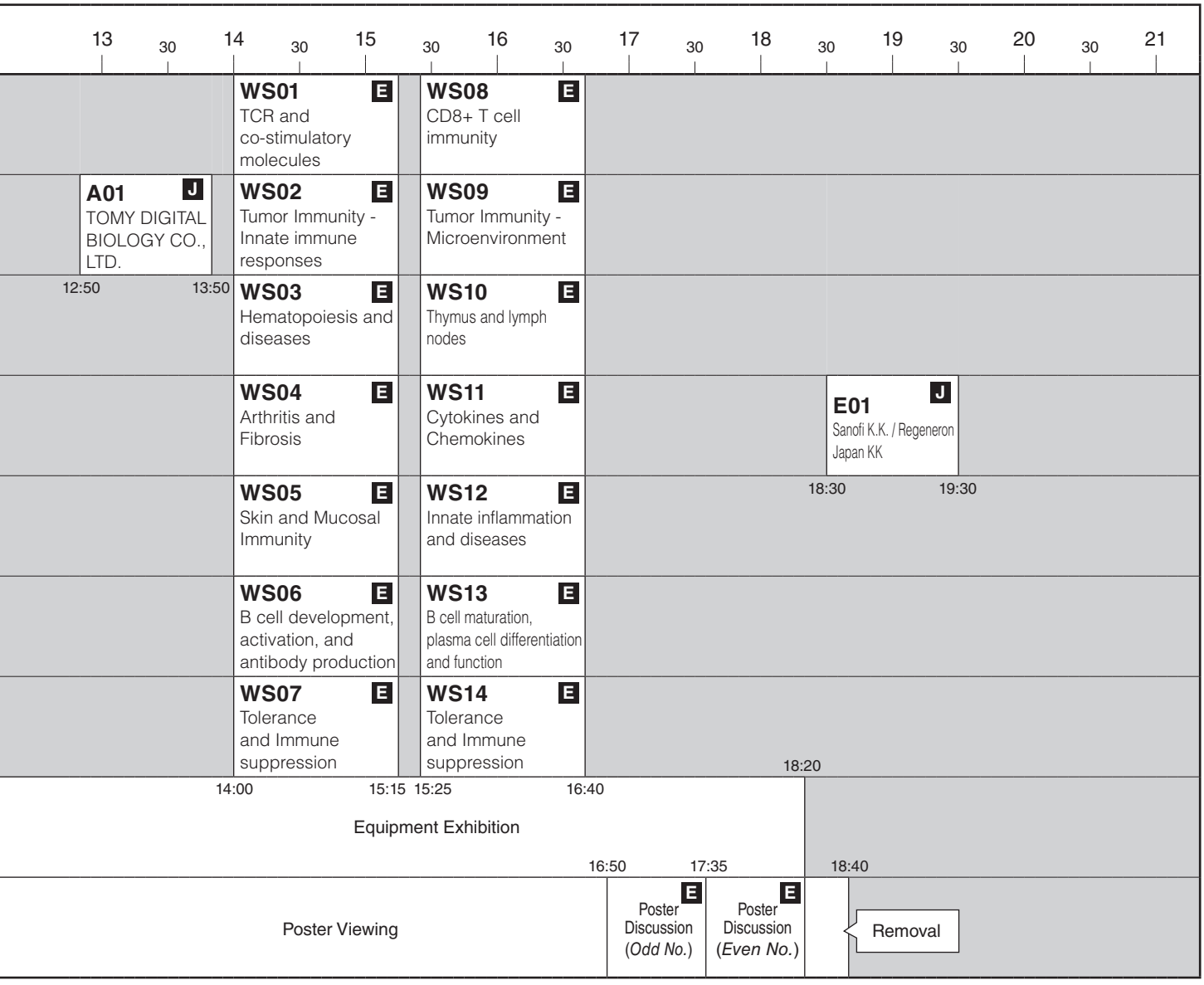
December 10 (Wed.), 2025

Building / Room		Program Room Number	8 30 9 30 10 30 11 30 12 30
2F	Grand Hall	*Room A*	**OT01** J **S01** E Physiological and pathological roles of Innate-like T cells ASI-JSI Joint Session/ Grant-in-Aid for Transformative Research Area (A):Self-referential immune perception co-organized session
	Medium Hall	*Room B*	**OT02** J **S02** E Cutting-edge technologies uncovering the immune system and disease mechanisms Co-sponsored by Institute for the Advanced Study of Human Biology (ASHBi)
	Small Hall	*Room C*	**OT03** J **S03** E New cancer immunotherapy based on immunosuppression in the tumor microenvironment JACI, JCA co-organized Session / Sponsored by International Immunology; **C01** J AstraZeneca K.K.
4F	407	*Room D*	**OT04** J **S04** E The Physiology and Pathology of Human T Cell Aging: Toward Regulation and Regeneration SFI-JSI Joint Session; **T01** J Nippon Becton Dickinson Company, Ltd
	408	*Room E*	**OT05** J **S05** E Immune systems on the planet; **T02** J TOMY DIGITAL BIOLOGY CO., LTD.
	409	*Room F*	8:30 9:00 11:30; **C02** J Otsuka Pharmaceutical Co., Ltd.
	402-403	*Room G*	9:00 11:40 12:40
1F	Exhibition Hall AB	*Equipment Exhibition*	8:30 Equipment Exhibition
		Poster	Installation Poster Viewing

OT | Overview Talk
T | Technical Seminar
E in English

S | Symposium
WS | Workshop
J in Japanese

C | Clinical Seminar
A | Afternoon Seminar
E | Evening Seminar



The 54th Annual Meeting of the Japanese Society for Immunology
Program at a glance

December 11 (Thu.), 2025

Building / Room		Program Room Number	8 30 9 30 10 30 11 30 12 30
2F	Grand Hall	*Room A*	**OT06** J　**S06** E Biology related with the Thymus ASI-JSI Joint Session/ KTCC Sponsored Session
	Medium Hall	*Room B*	**OT07** J　**S07** E Decoding Human Immunity in Infectious Diseases KAI-JSI Joint Session　**C03** J Pfizer Japan Inc.
	Small Hall	*Room C*	**OT08** J　**S08** E Innate Immune recognition of nucleic acids and diseases DGfI-JSI Joint Session
4F	407	*Room D*	**OT09** J　**S09** E New aspects of TCR recognition of antigen-MHC complex　**T03** J Beckman Coulter K. K.
	408	*Room E*	**OT10** J　**S10** E Basic and Translational Research on Autoimmune Diseases JSI-JCR Joint Session　**T04** J 10x Genomics Inc.
	409	*Room F*	8:30 9:00 11:30　**C04** E argenx Japan K.K.
	402-403	*Room G*	9:00 11:40 12:40
1F	Exhibition Hall AB	*Equipment Exhibition*	8:30 Equipment Exhibition
		Poster	Installation Poster Viewing

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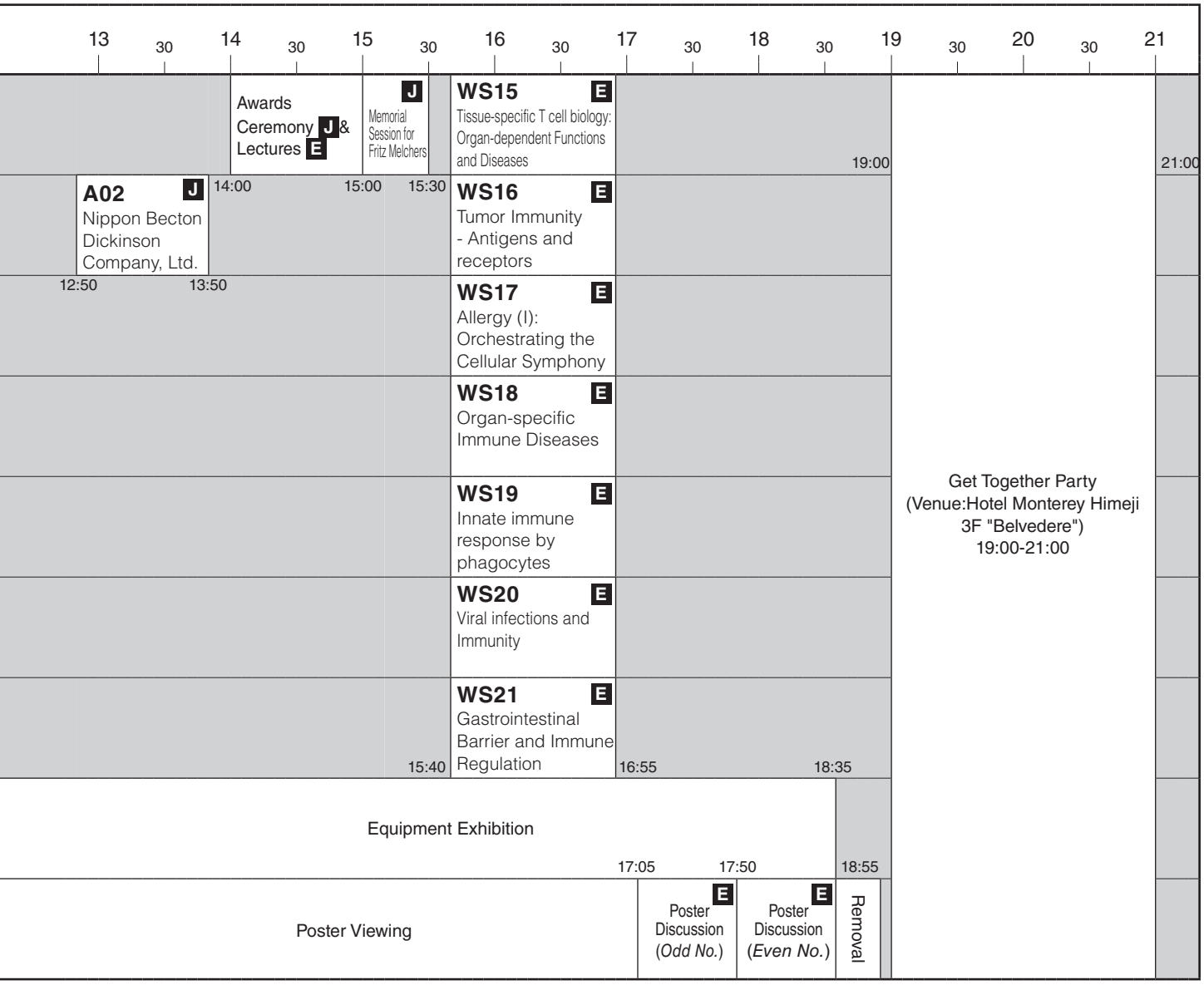

The 54th Annual Meeting of the Japanese Society for Immunology
Program at a glance

December 12 (Fri.), 2025

Building / Room		Program Room Number	8 30 9 30 10 30 11 30 12 30
2F	Grand Hall	*Room A*	**OT11** J — **S11** E Current Status and Prospects of Cell Therapy
	Medium Hall	*Room B*	**OT12** J — **S12** E The Allergy Revolution: From Basic Science to Transformative Therapies JSI-JSA Joint Session
	Small Hall	*Room C*	**OT13** J — **S13** E Inflammation and tissue repair regulated by gut myeloid cell subsets and environmental cues DGfI-SFI-JSI Joint Session; **C05** J AstraZeneca K.K.
4F	407	*Room D*	**OT14** J — **S14** E Immune Reaction and Tolerance to Self; **T05** J Thermo Fisher Scientific
	408	*Room E*	**OT15** J — **S15** E New trends in vaccination SCARDA-KIC Co-organized Session; **T06** E Cytek Japan Corp.
	409	*Room F*	8:30–11:30; **T07** J SCRUM Inc.
	402-403	*Room G*	9:00–11:40, 12:40
1F	Exhibition Hall AB	*Equipment Exhibition*	8:30 Equipment Exhibition
		Poster	Installation; Poster Viewing

OT | Overview Talk
T | Technical Seminar
E in English
S | Symposium
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C | Clinical Seminar
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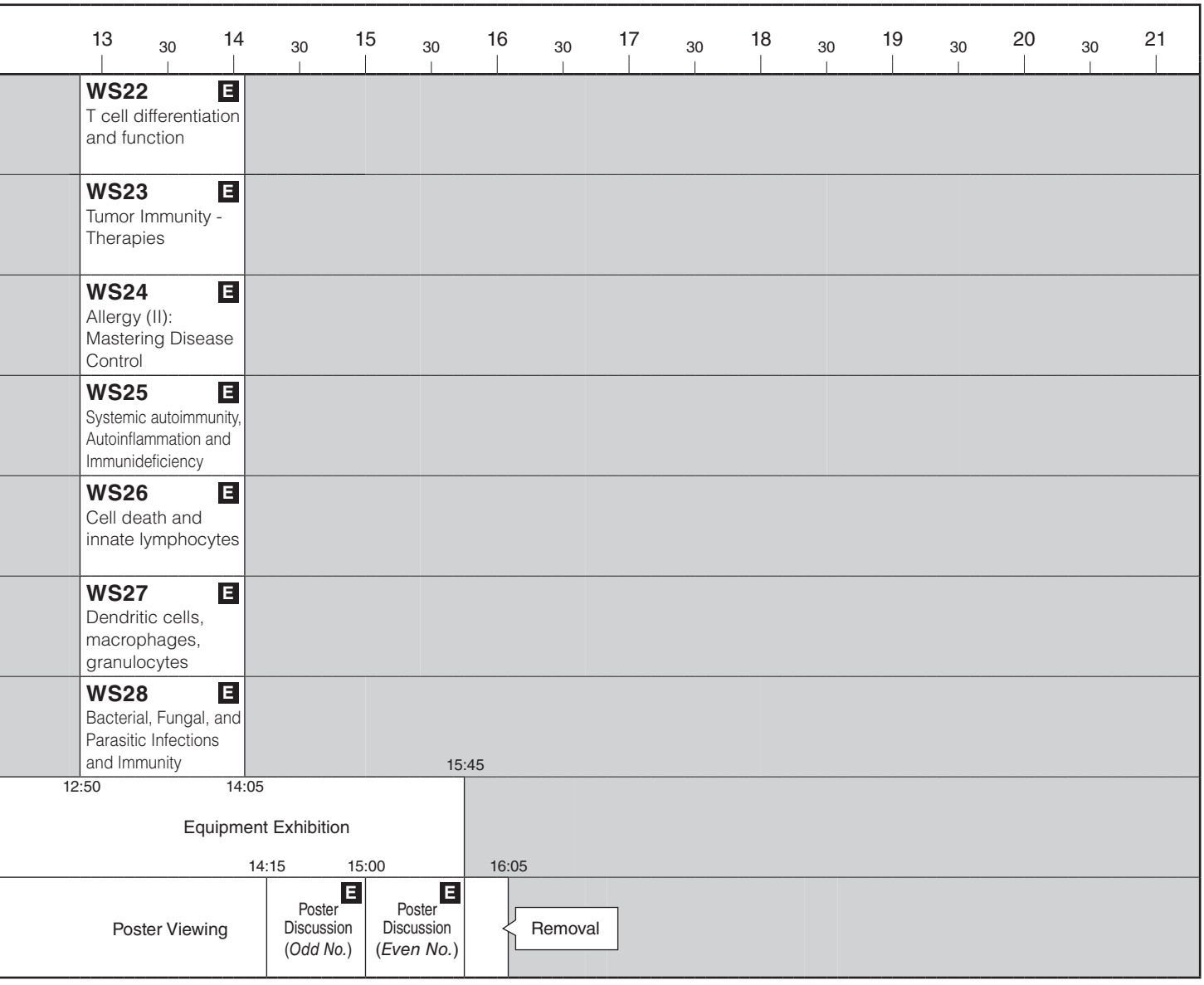
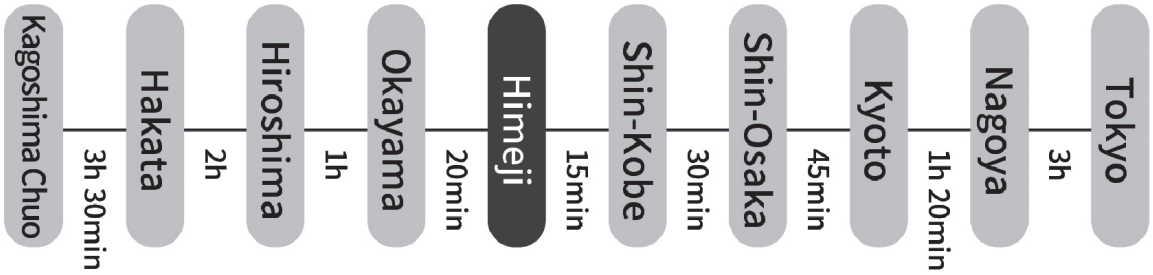
E | Evening Seminar



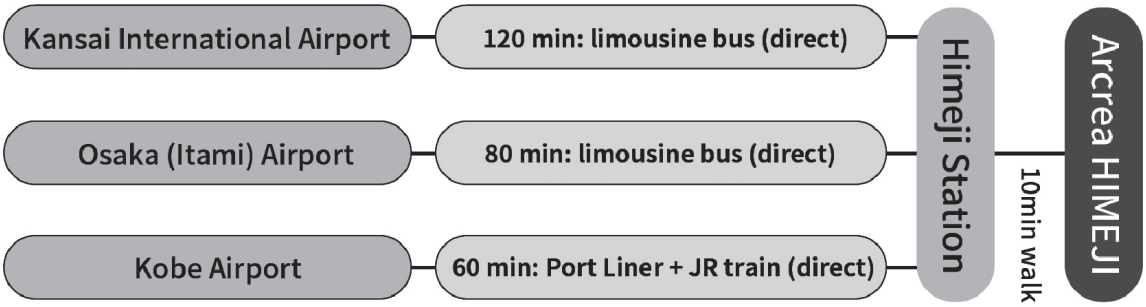
Access to Arcrea HIMEJI

DIRECTION

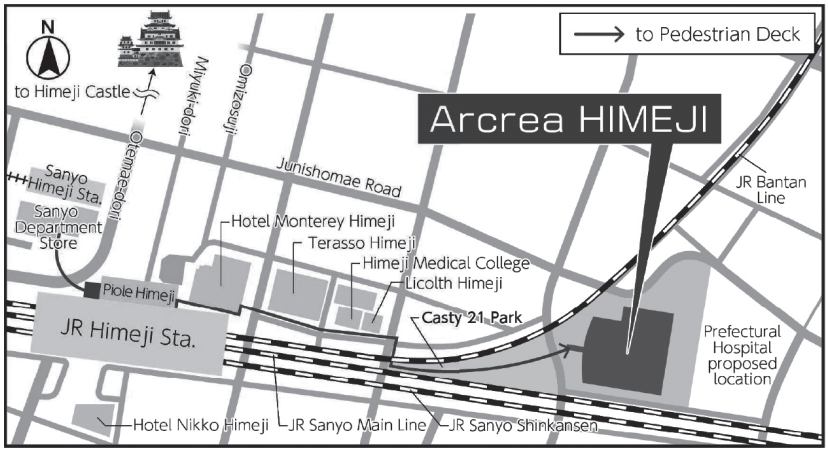
— By railway —

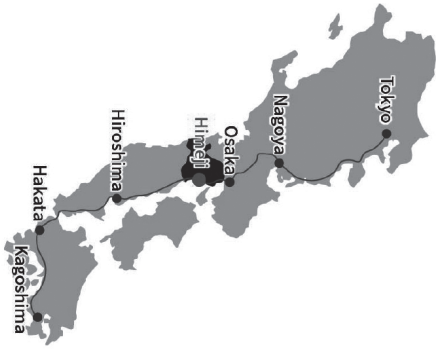


— By plane —



From Himeji Sta.

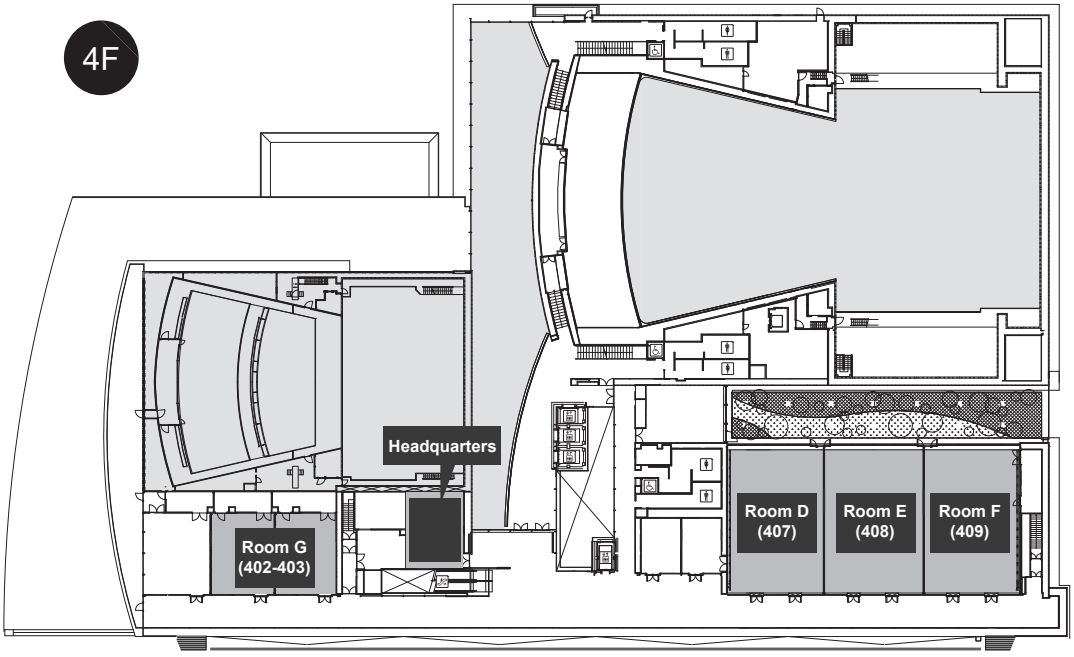


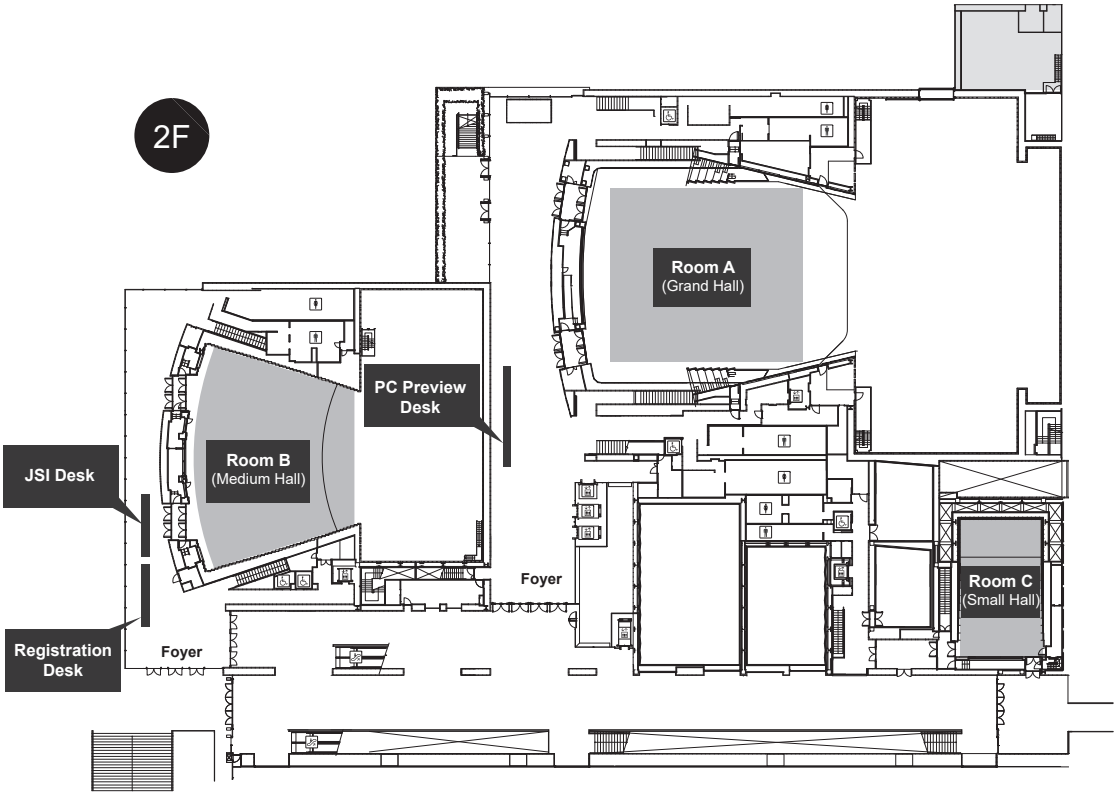


About 10 min walk from Himeji Station

– a hub of Shinkansen and local trains, private railways, buses, and other transport modes

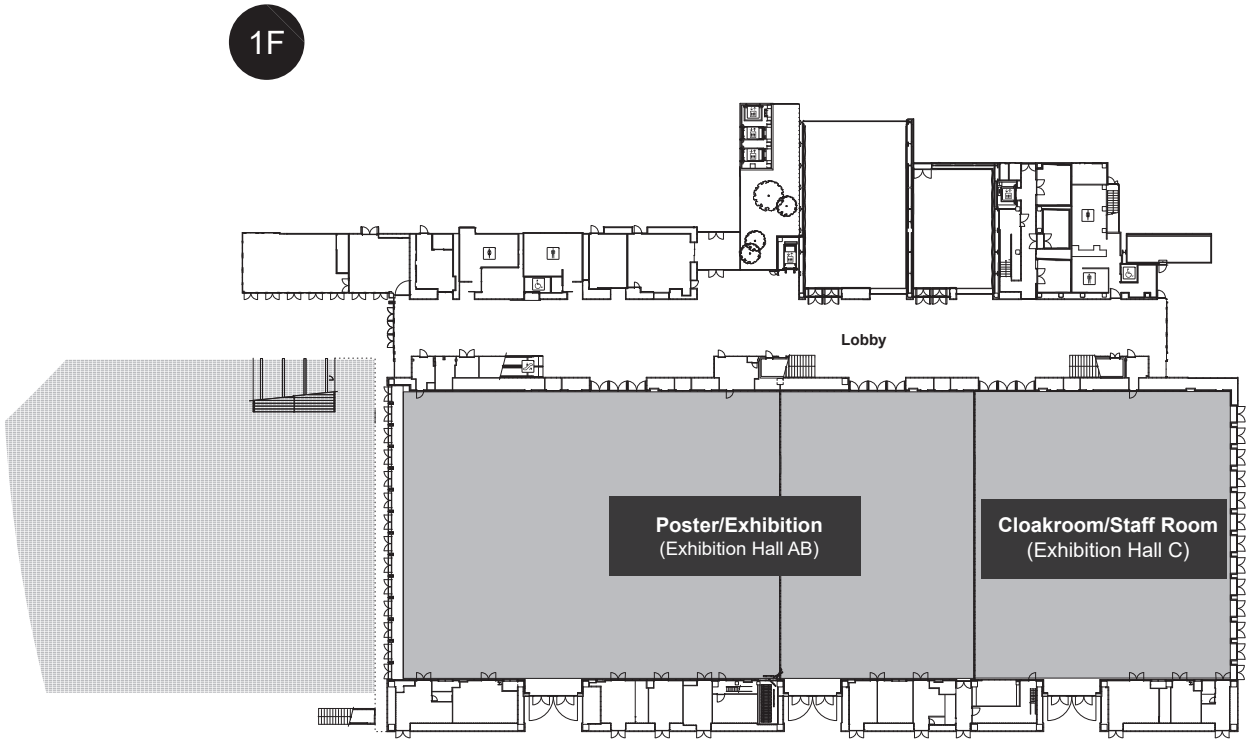
Conference Hall





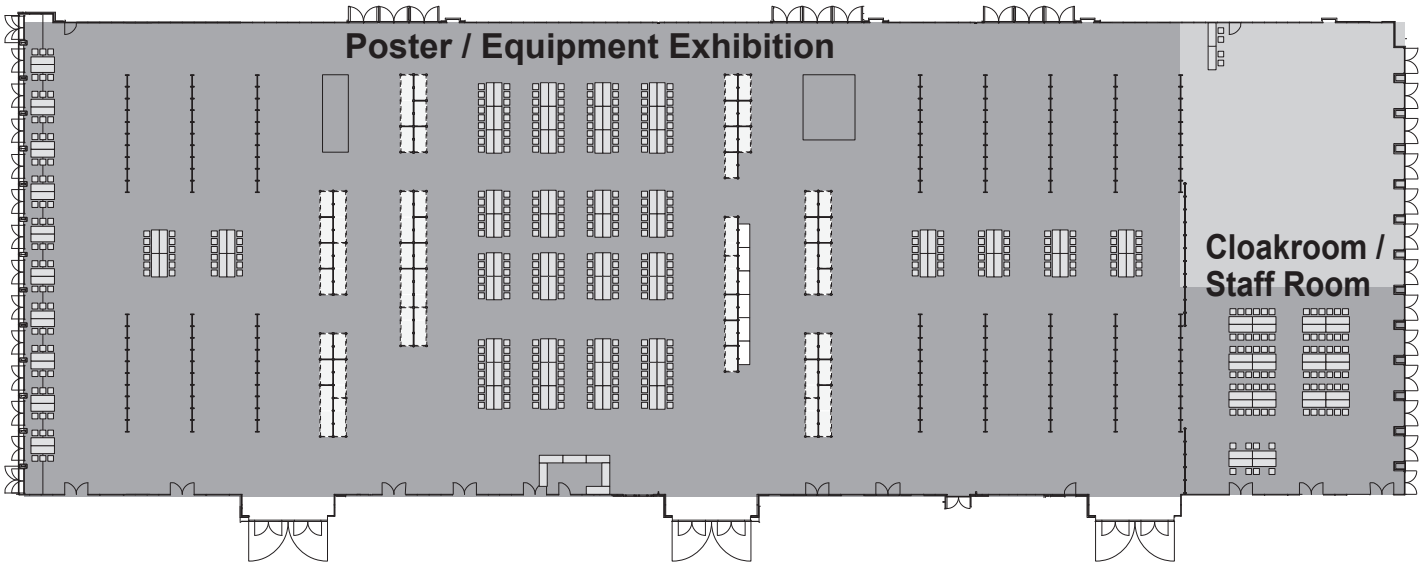
Floor Plan

Conference Hall



Equipment Exhibition

Exhibition Hall



Exhibitiors List			
1	Sony Corporation	24	M&S TechnoSystems Inc.
2	Cyagen Biosciences (Suzhou) Inc.	25	EP Trading Co., Ltd.
3	GENEWIZ™(Azenta Japan Corp.)	26	TOYO Corporation
4	Live Cell Diagnosis, Ltd.	27	Bio-Techne(Proteinsimple, ACD, R&D Systems, NOVUS, TOCRIS)
5	AlpalifeBio	28	10x Genomics
6	SYSMEX CORPORATION	29	Elsevier Japan K.K.
7	ABclonal Biotechnology Co., Ltd.	30	Rigaku(MILabs B.V.)
8	Iwai Chemicals Co.,Ltd.	31	MiRTeL Co.LTD.
9	Thermo Fisher Scientific K.K.	32	Bioengineering Lab. Co., Ltd.
10	SCRUM Inc.	33	Nippon Becton Dickinson Co., Ltd.
11	TOMY DIGITAL BIOLOGY CO., LTD.	34	BioStream Co., Ltd
12	Standard BioTools K.K.	35	Novogene Japan
13	Agilent Technologies Japan, LTd	36	Kyudo Co., Ltd.
14	Central Link Co., Ltd	37	VERITAS Corporation
15	Miltenyi Biotec K.K.	38	Proteintech Japan Co., Ltd.
16	Beckman Coulter K.K.	39	Cytek Corporation
17	Hitachi Ltd.	40	Rebirthel Co., Ltd.
18	InvivoGen	41	RIKEN BioResource Research Center
19	NACALAI TESQUE, INC.	42	Foundation for Biomedical Research and Innovation at Kobe
20	Ajinomoto Healthy Supply CO., INC.	43	Revvity
21	TOYOBO CO.,LTD.	44	PHC Corporation
22	Sino Biological Japan Inc.	45	CyberomiX Inc.
23	Katayama Chemical Industries	46	Nepa Gene Co., Ltd.

ご案内

本学術集会は、現地開催となります。オンライン配信および事後配信はありませんのでご注意ください。

1. 参加方法

◆ オンラインで参加登録をされた方

参加証（ネームカード）や領収書、参加証明書は、学術集会オンラインシステム (ONLINE CONF) へログインのうえダウンロードしてください。ログインにはご自身で登録したメールアドレスとパスワードをお使いください。
ネームホルダーは、現地の受付付近でお受け取りください。

◆ 現地で当日参加申込をされる方

2 階　ホワイエの参加受付にて学術集会参加費（下記参照）をお支払いのうえ、ネームカードをお受け取りください。
ネームカードをご着用でない方の入場はお断りいたします。
〈当日参加費（後期登録）〉

正会員	15,000 円
学生会員 *	3,000 円
学部学生会員 *	無　料
非会員	19,000 円
非会員学生 *	7,000 円
非会員学部学生 *	無　料

* 学部・大学院生は学生証の提示が必要です。
* 当日参加費のお支払いは現金のみです。
* 参加費にランチョンセミナー等のお弁当代は含まれておりません。
* 適格請求書発行事業者の登録番号：T9010005008442

〈参加受付開設時間〉

12 月 10 日（水）	7：45 ～ 17：00
12 月 11 日（木）	8：00 ～ 17：00
12 月 12 日（金）	8：00 ～ 13：00

◆ 名誉会員・功労会員

2 階　ホワイエの学会事務局デスクにお越しください。

2. 入会手続きおよび年会費の納入

日本免疫学会に未入会の方は、学会事務局デスク（現地会場 /2 階ホワイエ）にて入会できます。2026 年度会費および未納年会費の納入も同所で受け付けます。

【年会費】		【入会金】
国内正会員	11,000 円	国内正会員、国内学生会員（博士）、
国内学生会員 (博士)*	3,000 円	海外正会員、海外学生会員（博士）：1,000 円
国内学生会員 (学部・修士)*	0 円	国内学生会員（学部・修士）*、
海外正会員	12,000 円	海外学生会員（学部・修士）*：0 円
海外学生会員 (博士)*	4,000 円	* 学生会員（博士・学部・修士）の方は
海外学生会員 (学部・修士)*	0 円	学生証をご提示ください。

※一般演題の筆頭著者（発表者）は、2025 年度の会員（正会員、学生会員、功労会員、名誉会員に限ります）であることが義務付けられております。

3. プログラム、抄録集（プロシーディングス）

プログラムは、学術集会ホームページで公開し、また現地会場でも冊子を配布いたします。
会員は、抄録集（プログラム集、プロシーディングス）を PDF データ形式で学会ホームページの会員専用ページにて閲覧できます。閲覧にはご自身の会員番号（ID）とパスワードが必要です。

2025 年度会費を最近納入されたにもかかわらず、会員専用ページで閲覧できない際には学会事務局へお問い合わせください。
非会員の方には 5,000 円（税込）にて Web 抄録集（プロシーディングス）、プログラム集を販売いたします。
必要な方は参加登録の際にお申込みください。現地会場で参加申込をする方は、参加受付までお越しください。

4. 授賞式・受賞講演

授賞式：12 月 11 日（木）14:00 ～ 14:10　Room A（大ホール）にて行います。
・日本免疫学会賞 授賞式
・日本免疫学会ヒト免疫研究賞 授賞式
・日本免疫学会女性免疫研究者賞 授賞式
・日本免疫学会研究奨励賞 授賞式
・International Immunology Outstanding Merit Award 授賞式

受賞講演：12 月 11 日（木）14:10 ～ 15:00 ※授賞式に引き続き行います。
日本免疫学会賞、日本免疫学会ヒト免疫研究賞、日本免疫学会女性免疫研究者賞 受賞講演

5. 学術集会プログラム

本大会では以下のプログラムを実施します。

オーバービュートーク

各領域の基礎知識、歴史と発展を系統的に紹介する入門者向けの教育講演です。オーバービュー

トーク終了後、休憩時間をはさまずシンポジウムに移ります。

シンポジウム

国内外の免疫の研究者による 15 テーマ（S01 ～ S15）の国際シンポジウムを開催します。
演者の選考および形式については、プログラム委員会で指名した座長に一任いたしました。
それぞれのシンポジウムが同時進行する形をとります。シンポジウム進行方法、各演者の講演時間などは全て座長に一任しております。

JSI-JSA Joint Session

日本アレルギー学会とのジョイントセッションです。詳細はプログラムページをご確認ください。

JSI-JCR Joint Session

日本リウマチ学会とのジョイントセッションです。詳細はプログラムページをご確認ください。

アフタヌーンセミナー

協力企業との密な連携のもと、次世代を担う免疫学研究者を育成するプラットホームの構築をめざし、企業ならではの趣向を取り入れたセミナーです。

ポスター、ワークショップ（口頭発表）

一般演題は、すべての演題のポスター発表と一部の演題による口頭発表が行われます。口頭発表と共にポスターでの活発な討論をお願いいたします。

テクニカルセミナー・クリニカルセミナー・イブニングセミナー

テクニカルセミナーは、お昼の時間帯と夜の時間帯（イブニングセミナー）に、クリニカルセミナーはお昼の時間帯に行います。お弁当の入手方法については、次項の「6. セミナー整理券」をご参照ください。
講演の言語は「At a Glance」ページでご確認ください。

◆ **テクニカルセミナー・イブニングセミナー**

最新の医学･生命科学関連試薬･技術･機材･器機等を使った実験法などや、アレルギー･免疫疾患･癌・感染症研究に関連する最新の器機紹介を通じて、基礎研究・応用研究・開発研究の融合の場となるセミナーです。

◆ **クリニカルセミナー**

医薬品・生物学的製剤等による免疫疾患や感染症の診断や治療・予防の進展などをご紹介いただくセミナーです。

6. セミナー整理券（ランチョンセミナー、イブニングセミナー）

テクニカルセミナー、クリニカルセミナー、イブニングセミナーで配布されるお弁当は、「セミナー整理券」と引き換えにてお渡しいたします。「セミナー整理券」は以下のように配布いたします。
なお、お弁当の数には限りがあります。予めご了承ください。

◆ **セミナー整理券発券デスク**

各日お一人につき一枚、セミナー整理券を配布します。複数枚のお渡しはできませんのでご了承ください。
場　　所：2 階　ホワイエ
配布時間：各日 OPEN ～ 11:00　※ 11:00 以降は各セミナー会場前で配布いたします

◆ **お弁当の引換開始時刻**

セミナー開始 15 分前より、各セミナー会場前でセミナー整理券とお弁当を引き換えのうえ、会場への入場を開始いたします。
※会場の状況、直前セッションの進行状況等により前後することがございます。

〈ご注意〉
・セミナー開始時刻までに来られない場合にはセミナー整理券は無効となり、整理券をお持ちでない方にご提供しますことをご了承ください。
・整理券をお持ちでなくてもセミナーを聴講することはできますが、お弁当の配布はございませんのでご了承ください。

7. 機器・試薬等展示

会期中、大会会場内で機器・試薬展示を行います。休憩コーナー、ドリンクコーナーもご用意いたしますので、是非ご来場ください。
また、出展企業より提供される景品が当たるスタンプラリーも実施します。豪華景品もご用意しておりますので、是非ご参加ください。

8. 会員懇親会

日　　時：12 月 11 日（木）19:00-21:00
場　　所：モントレ姫路　3F 大宴会場「ベルヴェデーレ」
参 加 費：会員・非会員 5,000 円　学生会員・非会員学生・学部生 2,000 円
受　　付：アクリエひめじ 2 階　ホワイエ
参加人数には限りがございますので、お早めにお申し込みをお願いします。

9. 学術集会講演会場における撮影・録音行為の規制について

学術集会講演会場（シンポジウム会場、口頭発表会場、ポスター会場など、学会発表内容のある場所）における撮影、録音行為を禁止いたします。ただし、学会が承認したものはその限りではありません。
これは、発表者の許可無く学会発表の撮影・録音がおこなわれることにより、論文未掲載の最新データの発表が差し控えられるという現状を鑑みたものです。
会員の皆様の積極的かつ、活発な研究発表と討議がなされることを期待いたします。

General Information

This meeting will be held on-site. No online distribution of any programs during and after the meeting will be available.

1. On-site Participation

◆ Participants who registered online

Log into your account of ONLINE CONF, the online conference system, and download your meeting badge and the receipt of the registration fee. You can log into the system with your email address and password you set. Badge holders are available near the Registration Desk (2nd floor foyer).

◆ Participants who register on-site

Please come to the registration desk, pay the registration fee below and receive a meeting badge.
Participants without wearing their meeting badges will not be allowed to enter the meeting site.

〈On-Site Registration Fee (Late Registration)〉

Member	JPY 15,000
Doctoral Student*	JPY 3,000
Undergraduate and Master's Degree Student*	Free
Non-Member	JPY 19,000
Doctoral Student Non-Member*	JPY 7,000
Undergraduate and Master's Student Non-Member Student*	Free

*All of students are required to show their student ID.
*We accept cash only.

〈Registration Desk opening hours〉

December 10 (Wed)	7:45 - 17:00
December 11 (Thu)	8:00 - 17:00
December 12 (Fri)	8:00 - 13:00

◆ Honorary members / Meritorious members

Please come to the JSI Secretariat Desk at Foyer, 2F.

2. Application and Annual Membership Fee

You can join the JSI (the Japanese Society for Immunology) at the JSI desk on the meeting site. You can also pay your membership fees at the JSI desk at Foyer, 2F.

Annual Membership Fee
(Domestic)

Member	JPY 11,000
Doctoral Student*	JPY 3,000
Undergraduate and Master's Degree Student*	Free

(Overseas)

Member	JPY 12,000
Doctoral Student*	JPY 4,000
Undergraduate and Master's Degree Student*	Free

Application Fee

Member, Doctoral Student	JPY1,000
Undergraduate and Master's Degree Student*	Free

*All of students are required to show thieir student ID.

***First Authors (Presenting authors) must be JSI members: Regular, Student, Meritorious or Honorary members. However, foreign-registered authors residing outside Japan are excluded.**

3. Meeting Program / Proceedings (Abstracts)

The digital version of Meeting Program will be available on the meeting website, and the printed version of Meeting Program will be distributed to participants on the meeting site.
Meeting Program and Proceedings (abstracts) as a PDF file will be available on the website for JSI members. You need your membership ID and password to login to this website.

For non-members, Web Proceedings (abstracts) will be available for purchase at JPY 5,000 (tax included). If you wish to purchase a copy, please apply at the time of registration.
Participants who register on-site are kindly requested to visit the registration desk.

4. Awards Ceremony & Lectures

Ceremonies: Thursday, December 11, 14:00 - 14:10 , Room A (Grand Hall)

- JSI Award Ceremony
- JSI Human Immunology Research Award Ceremony
- JSI Women Immunologist Award Ceremony
- JSI Young Investigator Award Ceremony
- International Immunology Outstanding Merit Award Ceremony

Lectures: Thursday, December 11,14:10 -15:00, Room A (Grand Hall)
Lectures below will be held after the above Ceremonies.

- JSI Award Lecture
- JSI Human Immunology Research Award Lecture
- JSI Women Immunologist Award Lecture

5. Programs

The 54th JSI meeting will have following programs.

Overview Talk

Overview talks held prior to each symposium are kind of educational lectures and especially for students or those who are not specialized in the topics.

Symposia

International symposia on 15 topics(S01-S15)will be held by both domestic and overseas immunologists. The program committee appointed chairs of symposia and left selection of speakers to the discretion of those chairs.

Some symposia will be conducted concurrently. Chairs decide how they lead their sessions and presentation time of each speaker.

JSI-JSA Joint Session

The session will be held jointly with Japanese Society of Allergology. Refer to the program page for detailed information.

JSI-JCR Joint Session

The symposium will be held jointly with Japan College of Rheumatology. Refer to the program page for detailed information.

Afternoon Seminars

Those seminars are held aimed at building platforms for developing Immunologists who are responsible for the next generation in close collaborations with cooperative companies. Those are elaborate seminars unique to the companies.

Workshop (Oral presentations and Poster)

All regular papers are to be presented at Poster session. Some of selected regular papers are to be presented at Workshop as well.

Technical Seminars, Clinical Seminars, Evening Seminar

Technical Seminars will be held during the lunch time and evening time (as Evening Seminar). And, Clinical Seminars will be held during the lunch time.

Please refer to “6. Seminar Ticket” for more information regarding Luncheon seminars.
Language of each seminar can be found on “At a Glance” of the program page of our website.

◆ **Technical Seminars, Evening Seminar**

Those seminars aim to promote interaction between basic research, application research and development research through introducing experimental methods with latest life science related regents, technologies, machines and equipment, or latest equipment for researching allergy, immunological diseases, cancer, and infectious disease.

◆ **Clinical Seminars**

Those seminars aim to introduce developments of diagnosis, treatment and prevention of immunological and infectious diseases caused by pharmaceutical and biological products.

6. Seminar Ticket (Technical Seminars, Clinical Seminars, Evening Seminar)

A box lunch will be served for those has a Seminar Ticket at Technical and Clinical Seminars, evening seminar. Please kindly note that number of tickets are limited. Tickets will be distributed as below:

◆ **Seminar Ticket Desk**

One ticket for one person on a day (except Evening Seminar). Ticket distribution is on the first come, first served basis. We are not able to distribute more than one ticket to one person on a day.

Location : Foyer, 2F

Time: OPEN-11:00 (After 11:00, you may receive a ticket in front of each session room if tickets are still available)

◆ **Receiving a box lunch**

Redeem a ticket to receive a box lunch. You can receive it from 15 minutes before seminars begin in front of each seminar room.

*Starting time for receiving may be changed depending on previous seminar's ending time.

〈IMPORTANT〉

- Please arrive at the seminar rooms before the start time. If you do not show up in the room by the start time, your box lunch will be provided to another attendee who does not have a ticket.
- You can attend those seminars without tickets, however, a box lunch will not be served.

7. Commercial Exhibition – Exhibition of Machineries and Reagents

Exhibitions of machineries and reagents will be held. There will be a resting space and drink service in the exhibition space.

If you collect stamps by visiting exhibition booths, you can get gifts provided by exhibitors. You have a chance to win a special gift. Look forward to your participation in the stamp rally.

8. Get Together Party

Date & Time: December 11, 2025, 19:00-21:00
Venue: "Belvedere", 3F, Hotel Monterey Himeji
Fee: Member and Non-member JPY5,000 Student and Student Non-member JPY2,000
Registration desk: Foyer, 2F, Arcrea HIMEJI
The number of participants is limited. We recommend you register as early as possible.

9. Photographing and recording

Photographing and recording are prohibited in all sessions. However, photographing and recording by those who have obtained permission from the JSI may be granted.

Overview Talk

Program for Overview Talks

8:30 ~ 9:00, Wednesday, December 10

OT01 Overview Talk 01 Room A: Grand Hall

Chairpersons: Motoko Kimura (Chiba University)
Sho Yamasaki (Research Institute for Microbial Diseases, The University of Osaka)

Innate-like T Cells: Beyond MHC Restriction

Ryunosuke Muro Tokyo University of Science

8:30 ~ 9:00, Wednesday, December 10

OT02 Overview Talk 02 Room B: Medium Hall

Chairpersons: Yasuhiro Murakawa (Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University)
Shohei Kojima (Keio University)

Mapping Human Immune Systems and Diseases with Cutting-Edge Genomics and Computation

Yasuhiro Murakawa Kyoto University

8:30 ~ 9:00, Wednesday, December 10

OT03 Overview Talk 03 Room C: Small Hall

Chairpersons: Hiroyoshi Nishikawa (National Cancer Center Japan Research Institute)
Hiroaki Ikeda (Department of Oncology, Graduate School of Biomedical Sciences, Nagasaki University)

Cancer immune evasion mechanisms and their application to therapy: An Up-to-Date Review

Toshihiko Torigoe Sapporo Medical University

8:30 ~ 9:00, Wednesday, December 10

OT04 Overview Talk 04 Room D: 407

Chairpersons: Yoko Hamazaki (Center for iPS Cell Research and Application (CiRA), Kyoto University)
Yuki Sato (Hakubi Center for Advanced Research, Kyoto University)

Immune aging in T cells: Implications for immune dysfunction and age-related diseases

Yuki Sato Hakubi Center, Kyoto University / Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University / Department of Nephrology, Graduate School of Medicine, Kyoto University

8:30 ~ 9:00, Wednesday, December 10

OT05 Overview Talk 05 Room E: 408

Chairpersons: Takeshi Nitta (Tokyo University of Science)
Ryo Morimoto (Department of Molecular Biology, Umea University)

Diversity and evolutionary origins of the immune systems on Earth

Takeshi Nitta Tokyo University of Science

8:30 ~ 9:00, Thursday, December 11

OT06 Overview Talk 06 Room A: Grand Hall

Chairpersons: Ichiro Taniuchi (RIKEN)
Izumi Ohigashi (Institute of Advanced Medical Sciences, Tokushima University)

Overview of thymus biology

Izumi Ohigashi Institute of Advanced Medical Sciences, Tokushima University

8:30 ~ 9:00, Thursday, December 11

OT07 Overview Talk 07 Room B: Medium Hall

Chairpersons: Hideki Ueno (Kyoto University)
Eui-Cheol Shin (KAIST)

Current progress in human immunology of infection and vaccination

Ryutaro Kotaki The University of Tokyo / National Institute of Infectious Diseases, Japan Institute for Health Security

8:30 ~ 9:00, Thursday, December 11

OT08 Overview Talk 08 Room C: Small Hall

Chairpersons: Osamu Takeuchi (Graduate School of Medicine, Kyoto University)
Taro Kawai (Nara Institute of Science and Technology)

An overview of nucleic acid sensing pathways in innate immunity and their role in disease

Taro Kawai Nara Institute of Science and Technology

8:30 ~ 9:00, Thursday, December 11

OT09 Overview Talk 09 Room D: 407

Chairpersons: Hisashi Arase (The University of Osaka)
Keiko Udaka (Department of Immunology, Kochi Medical School)

Redefining TCR Recognition: Emerging Mechanisms in Antigen-MHC Interaction

Tadashi Yokosuka Tokyo Medical Univeristy

8:30 ~ 9:00, Thursday, December 11

OT10 Overview Talk 10 Room E: 408

Chairpersons: Akio Morinobu (Department of Rheumatology and Clinical immunology, Graduate School of Medicine, Kyoto University)
Hiroshi Takayanagi (Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo)

Advances in Basic and Clinical Research on Autoimmune Diseases

Akio Morinobu Rheumatology, Kyoto University Graduate School of Medicine

8:30 ~ 9:00, Friday, December 12

OT11 Overview Talk 11 Room A: Grand Hall

Chairpersons: Hiroshi Kawamoto (Institute for Life and Medical Sciences, Kyoto University)
Yuki Kagoya (Division of Tumor Immunology, Institute for Advanced Medical Research Keio University School of Medicine)

Cell Therapy: Current Status and Future Prospects

Takashi Aoi Kobe University

8:30 ~ 9:00, Friday, December 12

OT12 Overview Talk 12 Room B: Medium Hall

Chairpersons: Kenji Kabashima (Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, Kyoto University)
Atsuhito Nakao (Department of Immunology, Faculty of Medicine, University of Yamanashi)

The Allergy Paradigm Shift: Linking Basic Mechanisms to Clinical Impact

Hideaki Morita National Research Institute for Child Health and Development

8:30 ~ 9:00, Friday, December 12

OT13 Overview Talk 13 Room C: Small Hall

Chairpersons: Keiji Hirota (Kyoto University)
Christoph Wilhelm (University of Bonn)

Gut myeloid cell heterogeneity and environmental cues in the regulation of intestinal homeostasis

Keiji Hirota Kyoto University

8:30 ~ 9:00, Friday, December 12

OT14 Overview Talk 14 Room D: 407

Chairpersons: Yoichi Nakayama (Kyoto Universty)

Immune Reaction and Tolerance to Self

Yoshinaga Ito Kyoto University

8:30 ~ 9:00, Friday, December 12

OT15 Overview Talk 15 Room E: 408

Chairpersons: Masato Kubo (Kyoto University Immunomonitoring Center (KIC))
Cevayir Coban (The Institute of Medical Science (IMSUT), The University of Tokyo)

New Trends in Vaccination

Masato Kubo Kyoto University

Symposium

Program for Symposia

Symposium 01 Room A 9:00 ~ 11:30 December 10

S01. Physiological and pathological roles of Innate-like T cells ASI-JSI Joint Session/ Grant-in-Aid for Transformative Research Area (A): Self-referential immune perception co-organized session

Chairpersons: Motoko Kimura (Chiba University)
Sho Yamasaki (Research Institute for Microbial Diseases, The University of Osaka)

S01-01
9:00-9:30
Critical Roles of T cell receptor gamma delta in tissue immunosurveillance
Adrian Hayday Francis Crick Institute, London, UK / King's College London, UK

S01-02
9:30-10:00
Exploring neonatal T cells: Recent findings and insights
Motoko Kimura Chiba University

S01-03
10:00-10:30
Homeostasis, Regulation, and Modulation of Innate-like T Cells
Fern Koay Peter Doherty Institute for Infection and Immunity / University of Melbourne

S01-04
10:30-11:00
Conserved unconventional T cell subsets across primates that recognize a mycobacterial adjuvant
Yuki Sakai Research Institute for Microbial Diseases, The University of Osaka

S01-05
11:00-11:30
Why T cell positive selection requires LCK to be coreceptor-bound
Alfred Singer National Cancer Institute

Symposium 02 Room B 9:00 ~ 11:30 December 10

S02. Cutting-edge technologies uncovering the immune system and disease mechanisms Co-sponsored by Institute for the Advanced Study of Human Biology (ASHBi)

Chairpersons: Yasuhiro Murakawa (Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University)
Shohei Kojima (Keio University)

S02-01
9:00-9:30
Spatial transcriptomics of B and T cell receptors uncovers lymphocyte clonal dynamics in human tissue
Qirong Lin Karolinska Institutet

S02-02
9:30-10:00
Towards high specificity and low off-target recognition: De novo-designed pMHC binders facilitate T cell–mediated cytotoxicity towards cancer cells
Darian Stephan Wolff Technical University of Denmark

S02-03
10:00-10:30
Human genetics approach to understand the risk of viruses in immune disease
Shohei Kojima Keio University

S02-04
10:30-11:00

Advancing Transcriptomic Technologies to Decipher the RNA dynamics in Immunity

Akiko Oguchi RIKEN Center for Integrative Medical Sciences/Institute for the Advanced Study of Human Biology (WPI-ASHBi), Kyoto University

S02-05
11:00-11:30

Scalable single-cell technologies for resolving immune heterogeneity

Caleb Lareau Memorial Sloan Kettering

Symposium 03 Room C 9:00 ~ 11:30 December 10

S03. New cancer immunotherapy based on immunosuppression in the tumor microenvironment JACI, JCA co-organized Session/ Sponsored by International Immunology

Chairpersons: Hiroyoshi Nishikawa (National Cancer Center Japan Research Institute)
Hiroaki Ikeda (Department of Oncology, Graduate School of Biomedical Sciences, Nagasaki University)

S03-01
9:00-9:20

Single cell analysis of tumor infiltrating lymphocytes in Japanese melanoma

Yoshihiko Hirohashi Sapporo Medical University

S03-02
9:20-10:00

Reprogramming the tumor microenvironment with a single punch!

Ping-Chih Ho Ludwig Institute for Cancer Research

S03-03
10:00-10:30

Mitochondrial Transfer–Driven Immune Evasion in the Tumor Microenvironment

Yosuke Togashi Okayama University

S03-04
10:30-10:50

Identifying the mechanism of acquired resistance against cancer immunotherapy targeting innate immunity

Hitomi Nishinakamura National Cancer Center Research Institute

S03-05
10:50-11:30

Reprogramming the Tumor Microenvironment to Restore Checkpoint Blockade Sensitivity

Taha Merghoub Weill Cornell Medical Center

Symposium 04 Room D 8:42 ~ 11:30 December 10

S04. The Physiology and Pathology of Human T Cell Aging: Toward Regulation and Regeneration SFI-JSI Joint Session

Chairpersons: Yoko Hamazaki (Center for iPS Cell Research and Application (CiRA), Kyoto University)
Yuki Sato (Hakubi Center for Advanced Research, Kyoto University)

S04-01
9:00-9:30

TCF1 and HELIOS - Goddesses of T-cell youth

Jorg Goronzy Mayo Clinic College of Medicine and Sciences

S04-02
9:30-10:00

Aging Immunity in Tissue Context: Tertiary Lymphoid Structures as Drivers of Local Inflammation

Yuki Sato Hakubi Center, Kyoto University / Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University / Department of Nephrology, Graduate School of Medicine, Kyoto University

S04-03
10:00-10:30

Human antiviral T cell immunity eliminates senescent cells

Tatsuya Hasegawa Kyoto University

S04-04
10:30-11:00

T Cell Responsiveness in Immune Ageing, Viral Infections and Vaccination: Decline and Resilience

Victor Appay Bordeaux University and INSERM, France

S04-05
11:00-11:30

Regeneration of Thymic Function Using iPSC Technology: An Option for Overcoming T-cell Aging

Yoko Hamazaki Center for iPS Cell Research and Application (CiRA), Laboratory of Immunobiology, Graduate School of Medicine, Kyoto University

Symposium 05 Room E 9:00 ~ 11:30 December 10

S05. Immune systems on the planet

Chairpersons: Takeshi Nitta (Tokyo University of Science)
Ryo Morimoto (Department of Molecular Biology, Umea University)

S05-01
9:00-9:30

Emergence and divergence of blood cell lineages in the history of animal evolution

Yosuke Nagahata Institut de Biologia Evolutiva / Japan Society for the Promotion of Science

S05-02
9:30-10:00

Evolution of Antigen Receptor Assembly: Insights from Self-Genome Editing Mechanisms in Vertebrates

Ryo Morimoto Department of Molecular Biology, Umeå University

S05-03
10:00-10:30

Cows, immunogenetics and the evolution of "reach" in antigen recognition

Mike Criscitiello Texas A&M University

S05-04
10:30-11:00

Germinal Center-like Lymphoid Aggregates in Cold-Blooded Vertebrates Support Antibody Responses

Yasuhiro Shibasaki Nihon Univerisy

S05-05
11:00-11:30

Genomic insights into immune system adaptations of bats

Michael Hiller Senckenberg Research Institute

Symposium 06 Room A 9:00 ~ 11:30 December 11

S06. Biology related with the Thymus ASI-JSI Joint Session/ KTCC Sponsored Session

Chairpersons: Ichiro Taniuchi (RIKEN)
Izumi Ohigashi (Institute of Advanced Medical Sciences, Tokushima University)

S06-01
9:00-9:30

Thymic epithelial coordination for the development of self-conscious T cells

Yousuke Takahama National Institutes of Health

S06-02
9:30-10:00

Gene regulatory control of eligibility to enter the T-cell developmental pathway

Ellen V. Rothenberg California Institute of Technology

S06-03
10:00-10:30

LCK–co- receptor association ensures T cell lineage fidelity and maximizes epitope-specific TCR diversity

Nicole La Gruta Monash University

S06-04
10:30-11:00

Roles of Runx tyrosine phosphorylation in thymocyte fate decision

Ichiro Taniuchi RIKEN IMS, Lab Transcriptional Regulation

S06-05
11:00-11:30

Treg-based induction of immune tolerance

Shimon Sakaguchi The University of Osaka

*This lecture is held to commemorate the 2025 Nobel Prize in Physiology or Medicine jointly awarded to Mary E. Brunkow, Fred Ramsdell, and Shimon Sakaguchi.

Symposium 07 Room B 9:00 ~ 11:30 December 11

S07. Decoding Human Immunity in Infectious Diseases KAI-JSI Joint Session

Chairpersons: Hideki Ueno (Kyoto University)
Eui-Cheol Shin (KAIST)

S07-01
9:00-9:30

Recent topics in Inborn Errors of Immunity

Satoshi Okada Hiroshima University Graduate School of Biomedical and Health Sciences

S07-02
9:30-10:00

IL-15-induced NK-like activation of CD8+ T cells in viral infection

Eui-Cheol Shin Graduate School of Medical Science and Engineering, KAIST

S07-03
10:00-10:30

Host-pathogen interaction: lessons from malaria, cytomegalovirus and SARS

Antonio Lanzavecchia National Institute of Molecular Genetics, INGM

S07-04
10:30-11:00

T cell differentiation: Lessons from primary immunodeficiencies

Federica Sallusto Institute for Research in Biomedicine, Università della Svizzera italiana, Bellinzona, Switzerland and Institute of Microbiology, ETH Zurich, Switzerland

S07-05
11:00-11:30

Antigen-Specific High-Avidity CD4+ T Cells in Humans

Hideki Ueno Graduate School of Medicine, Kyoto University

Symposium 08 Room C 9:00 ~ 11:30 December 11

S08. Innate Immune recognition of nucleic acids and diseases DGfI-JSI Joint Session

Chairpersons: Osamu Takeuchi (Graduate School of Medicine and Faculty of Medicine, Kyoto University)
Taro Kawai (Nara Institute of Science and Technology)

S08-01
9:00-9:30

Diseases caused by innate immune responses to single-stranded RNAs

Kensuke Miyake Chiba University

S08-02
9:30-10:00

Detection of non-self nucleic acids by Toll-like receptors

Veit Hornung Ludwig-Maximilians-Universität Munich

S08-03
10:00-10:30

Local activation of mutant RIG-I by short non-coding RNAs in the kidney triggers lethal nephritis

Hiroki Kato University Hospital Bonn, University of Bonn

S08-04
10:30-11:00

Exploring the interface between RNA viruses and hosts

Sara Cherry University of Pennsylvania

S08-05
11:00-11:30

Roles of RNA Decay in the Regulation of Inflammatory Responses

Osamu Takeuchi Kyoto University

Symposium 09 Room D 9:00 ~ 11:30 December 11

S09. New aspects of TCR recognition of antigen-MHC complex

Chairpersons: Hisashi Arase (The University of Osaka)
Keiko Udaka (Department of Immunology, Kochi Medical School)

S09-01
9:00-9:30

Polymorphic interactions of natural killer cell recptors with HLA-peptide complexes

Paul Norman University of Colorado School of Medicine

S09-02
9:30-10:00

Breaking Self Tolerance: Self and Neoself Discrimination by T Cells in Autoimmune Diseases

Hisashi Arase Laboratory of Immunochemistry, Immunology Fontier Research Center, The University of Osaka / Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka

S09-03
10:00-10:30

Comprehensive analysis T cell receptors reveals CDR3 patterns associated with autoimmunity and T cell fate

Kazuyoshi Ishigaki Keio University School of Medicine

S09-04
10:30-11:00

Thymic selection of the neonatal Foxp3+ T regulatory cell repertoire

Eric Huseby The University of Massachusetts Medical School

S09-05
11:00-11:30

Impacts of TCR–MHC recognition characteristics on immune checkpoint function

Taku Okazaki The University of Tokyo

Symposium 10 Room E 9:00 ~ 11:30 December 11

S10. Basic and Translational Research on Autoimmune Diseases JSI-JCR Joint Session

Chairpersons: Akio Morinobu (Department of Rheumatology and Clinical immunology, Graduate School of Medicine and Faculty of Medicine, Kyoto University)
Hiroshi Takayanagi (Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo)

S10-01
9:00-9:30

Unexpected aspects of lymphocyte cell biology

John O'shea NIAMS/NIH

Zoom Lecture

S10-02
9:30-10:00

Induction of immunological tolerance by thymic mimetic cells

Diane Mathis Harvard Medical School

S10-03
10:00-10:30

Immune-mesenchymal Interplay in the pathogenesis of autoimmune arthritis

Noriko Komatsu Institute of Science Tokyo

S10-04
10:30-11:00

Deciphering the dynamics of tissue immune responses in autoimmune diseases

Hiroyuki Yoshitomi Graduate School of Medicine, Kyoto University

S10-05
11:00-11:30

Modulation of human immune cells by molecular targeted therapies

Satoshi Kubo The first department of internal medicine, University of Occupational and Environmental Health

Symposium 11 Room A 9:00 ~ 11:30 December 12

S11. Current Status and Prospects of Cell Therapy

Chairpersons: Hiroshi Kawamoto (Institute for Life and Medical Sciences, Kyoto University)
Yuki Kagoya (Division of Tumor Immunology, Institute for Advanced Medical Research Keio University School of Medicine)

S11-01
9:00-9:30

Novel strategies to improve the anti-tumor potential of CAR-T cells against solid cancers

Koji Tamada Yamaguchi University Graduate School of Medicine, Department of Immunology / The Research Institute for Cell Design Medical Science, Yamaguchi University

S11-02
9:30-10:00

CAR T- or NK-cells targeting mismatched HLA-DR molecules in acute myeloid leukemia after allogeneic hematopoietic stem cell transplant

Naoki Hosen Department of Hematology and Oncology, Graduate School of Medicine, The University of Osaka

S11-03
10:00-10:30

Improving CAR-T cell therapy based on the molecular understanding of resistance mechanisms

Yuki Kagoya Division of Tumor Immunology, Institute for Advanced Medical Research, Keio University School of Medicine

S11-04
10:30-11:00

Development of universal off-the-shelf T cell medicine produced from pluripotent stem cells for the treatment of leukemia and viral infection

Hiroshi Kawamoto Institute for Life and Medical Sciences, Kyoto University

S11-05
11:00-11:30

TRACeR: a cross-allelic pMHC targeting system

Possu Huang Stanford University

Symposium 12 Room B 9:00 ~ 11:30 December 12

S12. The Allergy Revolution: From Basic Science to Transformative Therapies JSI-JSA Joint Session

Chairpersons: Kenji Kabashima (Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, Kyoto University)
Atsuhito Nakao (Department of Immunology, Faculty of Medicine, University of Yamanashi)

S12-01
9:00-9:30

Identification of HEV-like endothelial cells and CD4+ resident memory T cells in atopic dermatitis

Kenji Kabashima Kyoto University

S12-02
9:30-10:00

Dynamic Stromal-Immune Conversations in Health and Injury

Ari Molofsky University of California

S12-03
10:00-10:30

Therapeutic potential of targeting ILC2s in allergic diseases

Kazuyo Moro Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka / Laboratory for Innate Immune Systems, RIKEN-IMS

S12-04
10:30-11:00

Immunological Mechanisms of Asthma with a Focus on Human Eosinophils and ILC2s

Koichi Fukunaga Keio University School of Medicine, Department of Medicine, Pulmonary Division

S12-05
11:00-11:30

New mechanisms in type 2 inflammation

Bart Lambrecht VIB Center for Inflammation Research

Symposium 13 Room C 9:00 ~ 11:30 December 12

S13. Inflammation and tissue repair regulated by gut myeloid cell subsets and environmental cues DGfI-SFI-JSI Joint Session

Chairpersons: Keiji Hirota (Kyoto University)
Christoph Wilhelm (University of Bonn)

S13-01
9:00-9:30

Smoking and Gut Microbiota in Inflammatory Bowel Disease

Hiroshi Ohno RIKEN Center for Integrative Medical Sciences

S13-02
9:30-10:00

Human single-cell multiomics reveals epigenetic programming of immune cells driving gut inflammation in Crohn's disease

Mari Murakami The University of Osaka

S13-03
10:00-10:30

Metabolic cooperations fueling barrier immunity

Christoph Wilhelm University of Bonn

S13-04
10:30-11:00

Tissue Macrophage Heterogeneity

Florent Ginhoux Fondation Gustave Roussy

S13-05
11:00-11:30

Transcriptional control of tissue repair programs in macrophages

Yasutaka Okabe Immunology Frontier Research Center (IFReC), The University of Osaka

Symposium 14 Room D 9:00 ~ 11:30 December 12

S14. Immune Reaction and Tolerance to Self

Chairpersons: Yoichi Nakayama (Kyoto University) <S14-01~S14-03-2>
Ryuichi Murakami (The University of Tokyo) <S14-04~S14-05>

S14-01
9:00-9:30

Investigating T cell immunobiology using genetically engineered models

Nikhil Joshi Yale University

S14-02
9:30-10:00

Dissecting the Protective Niche Facilitating the Immune Tolerance of Epithelial Stem Cells

Yuxuan Miao The University of Chicago

S14-03
10:00-10:10

Clonally expanded tissue-specific Tregs mediate tissue-specific immune tolerance

Shohei Hori The University of Tokyo

Pre-recorded video presentation

S14-03-2
10:10-10:30

Dynamic and direct regulation of Treg cell cis-regulatory programs by Foxp3

Ryuichi Murakami The University of Tokyo

S14-04
10:30-11:00

Predominantly Treg-derived soluble CTLA-4 restrains type-1 immunity while sparing type-2 responses, favoring inflammation resolution

Motonao Osaki Laboratory of Immunopathogenesis, Institute for Life and Medical Sciences (LiMe), Kyoto University / Laboratory of Experimental Immunology, Immunology Frontier Research Center (WPI-IFReC), Osaka University

Pre-recorded video presentation

S14-05
11:00-11:30

Role of Th1-type Treg in tumor immunity and autoimmunity

Masahiro Yamamoto RIMD, The University of Osaka / IFReC, The University of Osaka

Symposium 15 Room E 9:00 ~ 11:30 December 12

S15. New trends in vaccination SCARDA-KIC Co-organized Session

Chairpersons: Masato Kubo (Kyoto University Immunomonitoring Center (KIC))
Cevayir Coban (The Institute of Medical Science (IMSUT), The University of Tokyo)

S15-01
9:00-9:30

Host-Plasmodium Interactions and Vaccine Progress: Current Status and Future Directions

Cevayir Coban The University of Tokyo

S15-02
9:30-10:00

Dissecting the tissue biology of inflammasomes in inflammation

Jelena Bezbradica University of Oxford

S15-03
10:00-10:30

Immune profiling of emerging viral threats: lessons from influenza, SARS-CoV-2, and mpox

Rory de Vries Erasmus MC

S15-04
10:30-11:00

Decoding vaccine immunity for rational vaccine design

Yoshimasa Takahashi Japan Institute for Health Security, National Institute of Infectious Diseases

S15-05
11:00-11:30

Systems human immunology: immune setpoint and immune health

John Tsang Center for Systems and Engineering Immunology,Yale University

Workshop

◯ : Presenter

December 10

WS01 TCR and co-stimulatory molecules

14:00 ~ 15:15 Room A

Chairpersons: Yuriko Tanaka, Ei Wakamatsu

TCR signaling, together with signals from costimulatory molecules, plays a key role in T cell activation and drives effector T cell differentiation. However, these signals vary among T cell subsets. To gain a deeper understanding of immune responses, it is therefore essential to elucidate the molecular mechanisms of T cell activation in different T cell subsets. In this session, we would like to discuss on the regulation of T cell activation and the fate decisions mediated by TCR and costimulatory signals, together with the structural basis of TCR recognition, across diverse T cell subsets including effector T cells, regulatory T cells, and unconventional T cells. We hope active participation and discussion that will further advance our understanding of T cell responses.

WS01-01-O/P

TCR Affinity and Memory Status Define Competitive Advantage in CD8⁺ T Cells

◯ Masaki Kurosu, Mikiya Tsunoda, Haru Ogiwara, Kouji Matsushima, Satoshi Ueha

Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS01-02-O/P

Antitumor Effects of TNF Ligand–Fusion Proteins Targeting Costimulatory TNFRSF Members on T Lymphocytes

◯ Ayaka Sato[1)], Syuji Toya[1)], Kanon Hase[1)], Masashi Morita[1)], Mari Hikosaka-Kuniishi[1)], Naoto Ishii[2)], Takanori So[1)]

[1)]Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, [2)]Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS01-03-O/P

Complete humanization of MHC genes in mouse

◯ Teruhiko Suzuki[1, 2)], Mana Yamakawa[1, 2)], Saki An[1, 2)], Hiroko Yanagisawa[1)], Yasuhiro Kazuki[3, 4, 5, 6)], Mitsuo Oshimura[3)], Eiji Mizutani[7)], Takahiko Hara[1)]

[1)]Stem Cell Proj., Tokyo Metropol. Inst. Med. Sci., [2)]Immunomed. Group, Tokyo Metropol. Inst. Med. Sci., [3)]CERC, Tottori Univ., [4)]Div. of Chr. Biomed. Eng., Grad. Sch. of Med. Sci., Tottori Univ., [5)]Chr. Eng. Group, ExCELLS., [6)]Sch. of Life Sci., Facul. of Med., Tottori Univ., [7)]Institute of Medicine, University of Tsukuba

WS01-04-O/P

Similar autoreactive regulatory T cell clones are selected during early ontogeny and expand under homeostatic perturbations

◯ Reiko Tsukazaki, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS01-05-O/P

Mucosal-associated invariant T cells recognize an intermediary metabolite involved in the DNA synthetic pathway

◯ Yanqi Xue[1)], Chihiro Fukui[1)], Ryosuke Takasaki[2)], Shinsuke Inuki[2)], Daisuke Motooka[4)], Emi Ito[5)], Koji Tamada[3)], Makoto Furutani-Seiki[6)], Kei Sakamoto[7)], Koh-Hei Sonoda[1)], Sho Yamasaki[5)], Kensuke Shibata[8)]

[1)]Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan, [2)]Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, 606-8501, Japan, [3)]Department of Immunology, Graduate School of Medicine, Yamaguchi University, Yamaguchi, 753-8511, Japan, [4)]NGS core facility, Bioinformatics Center, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, [5)]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, [6)]Systems Biochemistry in Pathology and Regeneration, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, [7)]Department of Microbiology and Immunology, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, [8)]Department of Visual Regeneration, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan

WS01-06-O/P

Identification of conserved CD1b motif (RExxD) that restricts biased TCRβ of unconventional T cells

◯ Minori Asa[1)], Yuki Sakai[1)], Mika Hirose[2)], Masamichi Nagae[1, 3)], Go Hirai[4)], Takayuki Kato[2, 6)], Sho Yamasaki[1, 3, 5, 6)]

[1)]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Japan, [2)]Laboratory for CryoEM Structural Biology, Institute for Protein Research, The University of Osaka, Japan, [3)]Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, Japan, [4)]Graduate School of Pharmaceutical Sciences, Kyushu University, Japan, [5)]Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Japan, [6)]Center for Advanced Modalities and Drug Delivery Systems (CAMaD), The University of Osaka, Japan

WS02 Tumor Immunity - Innate response

14:00 ~ 15:15 Room B

Chairpersons: Hideyuki Yanai, Mariko Ishibashi

"Tumor immunity" has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year's "Tumor immunity" workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining "Innate immune responses", highlighting their roles and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

WS02-03-O/P

Human SIRPα antibody monotherapy activates human macrophages to suppress renal cell carcinoma growth in a humanized mouse model

◯ Tania Afroj[1, 2)], Tomoko Takai[2)], Takenori Kotani[3)], Yoji Murata[3)], Ikumi Katano[4)], Yuchi Iida[1)], Takeshi Takahashi[4)], Takashi Matozaki[2)], Yasuyuki Saito[1, 2)]

[1)]Department of Immunology, Faculty of Medicine, Shimane University, [2)]Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, [3)]Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, [4)]Department of Basic Research for Laboratory Animals, Central Institute for Experimental Medicine and Life Science, Kawasaki, japan

WS02-04-O/P

The role of thymic pDC in tumor immune tolerance

◯ Yangsong Wang, Ryo Nasu, Yukihiro Endo, Motoko Y Kimura

Chiba University

WS02-08-O/P

Tumor-Infiltrating Mast Cells Are Associated With Better Efficacy Of Neoadjuvant Therapy By Modulating Desmoplastic Microenvironment

◯ Xiangmei Zhang[1, 3)], Yunjiang Liu[2)], Jidong Zhao[3)]

[1)]Cancer Institute of Hebei Province, Fourth Hospital of Hebei Medical University, Shijiazhuang City, 050011, China, [2)]Department of Breast Center, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China, [3)]Department of Thoracic Surgery, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China

WS02-11-O/P

Loss of Histone Methyltransferase Ezh2 Exacerbates Polarization of Macrophages toward M2-Like Phenotypes by Hepatocellular Carcinoma

◯ Tanapat Palaga[1, 4)], Kittin Weerasopon[1)], Atsadang Boonmee[2)], Patipark Kueanjinda[3)]

[1)]Faculty of Science, Chulalongkorn University , [2)]Faculty of Medicine Siriraj Hospital, Mahidol University, [3)]Department of Pathology, UMass Chan Medical School, University of Massachusetts Worcester, [4)]Center of Excellence in Immunology and Immune-Mediated Diseases, Chulalongkorn University

WS02-14-O/P

Abscopal Effect of Oncolytic HSV-1 is Dependent on Plasmacytoid Dendritic Cells

◯ Shumpei Uchida[1)], Hiroyuki Kubo[1)], Katsuaki Sato[2)], Ryutaro Fukui[3)], Kensuke Miyake[3)], Tomoki Todo[3)], Norimitsu Kadowaki[1)]

[1)]Division of Hematology, Rheumatology and Respiratory Medicine, Faculty of Medicine, Kagawa University, [2)]Division of Immunology, Faculty of Medicine, University of Miyazaki, [3)]Division of Infectious Genetics, Institute of Medical Science, the University of Tokyo

WS02-16-O/P

Cancer immunotherapy using CCL19-expressing allogeneic mesenchymal stem cells exerts robust anti-tumor effects in mouse model

◯ Yuichi Iida, Mamoru Harada, Yasuyuki Saito

Shimane University, Fuculty of Medicine, Department of Immunology

WS02-17-O/P

Adenosine-Induced Regnase-1 Expression in Tumor-Associated Macrophages Suppresses T Cell Anti-Tumor Activity

◯ Xingyu Rong[1)], Hai Wang[2)], Osamu Takeuchi[1)]

[1)]Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, Japan, [2)]Key Laboratory of Breast Cancer in Shanghai, Department of Breast Surgery, Fudan University Shanghai Cancer Center, Shanghai Medical College, Fudan University, Shanghai, P.R. China

WS03 Hematopoiesis and diseases

14:00 ~ 15:15 Room C

Chairpersons: Kyoko Ochiai, Takuya Uehata

Hematopoietic stem cells (HSCs) can give rise to all hematopoietic lineage cells, including lymphocytes, erythrocytes, and myeloid cells. During the differentiation processes from HSCs into various cell lineages, lineage-specific gene expression programs are established through transcriptional and epigenetic mechanisms and are further shaped by environmental cues. Recent studies have clearly demonstrated the importance of post-transcriptional regulation, including mRNA maturation, stability, and translation, in hematopoiesis. Dysregulation of these processes can impair HSC function and hematopoietic cell development, leading to disease. In this workshop, we will share and discuss new findings and technologies to improve our understanding of the fundamental mechanisms of hematopoiesis and related diseases.

WS03-03-O/P

The codon usage sensor DHX29 maintains hematopoietic stem cell quiescence

◯ Ting Cai, Masanori Yoshinaga, Osamu Takeuchi

Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS03-05-O/P

Development of Irradiation-Free Mouse bearing Fully Xenogeneic blood System by Intraplacental Transplantation and RUNX1 Deficiency

◯ Chingwei Liao[1, 3, 4)], Hyojung Jeon[2)], Michito Hamada[1, 4)], Satoru Takahashi[1, 4)]

[1)]University of Tsukuba, [2)]Division of Cell Regulation, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo, [3)]Human Biology Program, University of Tsukuba, [4)]Department of Anatomy and Embryology, University of Tsukuba

WS03-07-O/P

Transcription factor trinity, E2A, Ebf1 and Erg, guides B cell fate: Insights from Single-Cell RNA-Seq

◯ Rinako Hayashi[1)], Reiko Hidaka[1)], Kazuko Miyazaki[1)], Takashi Nagasawa[2)], Hiroshi Kawamoto[1)], Masaki Miyazaki[1)]

[1)]Institute for Life and Medical Sciences, Kyoto University, [2)]Graduate School of Frontier Biosciences, The University of Osaka

WS03-08-O/P

Non-canonical PRC1 complexes are required for lymphoid lineage specification

◯ Mayumi Hirakawa, Lisa Hirano, Tomokatsu Ikawa

Tokyo University of Science

WS03-12-O/P

CB2 Receptor Signaling and Its Impact on Immune cells via HSPC Populations

◯ Nuzat Tabassum Islam[1)], Toru Asahi[1, 2, 3)], Chihiro Nozaki[1, 4)], Haruka Hosoki[1)]

[1)]Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Waseda University, [2)]Comprehensive Research Organization, Waseda University, [3)]Research Organization for Nano and Life Innovation, Waseda University, [4)]Global Center for Science and Engineering, Waseda University

WS03-13-O/P

Angiopoietin-like 4 regulates the pathogenesis of pulmonary fibrosis via the phenotypic conversion between myofibroblast and lipofibroblast

◯ Masahiro Kitabatake[1)], Atsushi Hara[1)], Kaito Yasuike[1)], Ryutaro Furukawa[1)], Akihisa Oda[2)], Noriko Ouji-Sageshima[1)], Toshihiro Ito[1)]

[1)]Department of Immunology, Nara Medical University, [2)]Department of Pediatrics, Nara Medical University

WS03-14-O/P

A Dual-Targeting Strategy to Inhibit the Development of Neutralizing Anti-FVIII Antibodies in a Murine Model of Hemophilia A

◯ Akihisa Oda[1)], Kenichi Ogiwara[1)], Masahiro Kitabatake[2)], Noriko Ouji-Sageshima[2)], Atsushi Hara[2)], Kaito Yasuike[2)], Toshihiro Ito[2)], Keiji Nogami[1)]

[1)]Department of Pediatrics, Nara Medical University , [2)]Department of Immunology, Nara Medical University

WS04 Arthritis and Fibrosis

14:00 ~ 15:15 Room D

Chairpersons: Satoshi Kubo, Haruka Tsuchiya

The complex interplay between immune cells and non-immune cells contributes to the pathogenesis of arthritis as well as tissue fibrosis in organs such as the lung. Understanding the molecular mechanisms of autoimmune responses and the intricate multi-cellular networks in the tissue microenvironment is crucial for developing effective preventive and therapeutic strategies. This session is dedicated to fostering a comprehensive discussion and advancing our understanding of the complex immunological mechanisms underpinning arthritis and fibrosis, with a focus on lymphocytes, myeloid cells, fibroblasts, autoantigens, cytokines, and microbial influences.

WS04-01-O/P

GM-CSF controls pathogenic function of Ly6Chi monocyte-derived macrophages crucial for synovial inflammation in autoimmune arthritis

◯ Hiroki Mukoyama[1, 2)], Yusuke Takeuchi[1, 2)], Daiya Ohara[1)], Yoonha Lee[1)], Hitomi Watanabe[1)], Gen Kondoh[1)], Akio Morinobu[2)], Keiji Hirota[1)]

[1)]Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, [2)]Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University

WS04-02-O/P

Aging-related alterations of effector CD4+ T cells in arthritis model mice

◯ Shusuke Tanaka, Taihei Nishiyama, Airi Kondo, Ayako Ohyama, Hiromitsu Asashima, Haruka Miki, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto

Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS04-03-O/P

Exploring the epigenomic landscapes of synovial fibroblast diversification in rheumatoid arthritis by single-nucleus multi-omics analyses

◯ Reo Yamazato[1)], Risa Yoshihara[1)], Ikuo Takazawa[1)], Sotaro Nakajima[1)], Yasunori Omata[2)], Sakae Tanaka[2)], Tomohisa Okamura[3)], Haruka Tsuchiya[1)], Keishi Fujio[1)]

[1)]Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2)]Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [3)]Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

WS04-04-O/P

Neoself IgG is a Primary Antigen Driving the Clonal Expansion of Autoreactive T Cells in Rheumatoid Arthritis

◯ Jing Yang[1, 2)], Shunsuke Mori[1)], Hui Jin[1)], Hiroyuki Yoshitomi[3, 4)], Hideki Ueno[3, 4)], Hisashi Arase[1, 2)]

[1)]Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, [2)]World Premier International Immunology Frontier Research Centre, The University of Osaka, [3)]Department of Immunology, Graduate School of Medicine, Kyoto University, [4)]Institute for the Advanced Study of Human Biology, Kyoto University

WS04-05-O/P

Using Tocilizumab to Treat Castleman Disease and Rheumatoid Arthritis:Bocking IL-6 Improves pathology of Diseases with different Etiologies

◯ Kazuko Uno[1)], Kazuyuki Yoshizaki[2)]

[1)]Louis Pasteur Center for Medical Research, [2)]The Institute of Scientific and Industrial Research, SANKEN, The University of Osaka

WS04-13-O/P

RANKL controls vascular permeability in bone marrow sinusoids

◯ Takeshi Kaneko[1, 2, 3)], Shinya Yari[1)], Junichi Kikuta[1, 3, 4)], Atsushi Kumanogoh[2, 3)], Masaru Ishii[1, 3)]

[1)]Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, The University of Osaka, Osaka, Japan., [2)]Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, The University of Osaka, Osaka, Japan., [3)]WPI-Immunology Frontier Research Center, The University of Osaka, Osaka, Japan., [4)]Division of Immunology, Department of Future Medical Sciences, Graduate School of Medicine, Kobe University, Hyogo, Japan.

WS04-14-O/P

Microbiota-derived peptide corisin promotes cellular senescence in podocytes

◯ Tomoko Ano[1)], Taro Yasuma[1, 2)], Valeria Fridman[1)], Corina Gabazza[1)], Atsuro Takeshita[1, 2)], Yuko Okano[2)], Chisa Inoue[2)], Kota Nishihama[2)], Masaaki Toda[1)], Esteban Gabazza[1)]

[1)]Department of Immunology, Mie University Graduate School of Medicine, [2)]Department of Diabetes & Endocrinology, Mie University Graduate School of Medicine

WS05 Skin and Mucosal Immunity

14:00 ~ 15:15 Room E

Chairpersons: Yumi Matsuoka-Nakamura, Satoshi Nakamizo

The skin and mucosal surfaces represent dynamic immunological interfaces where epithelial and immune cells orchestrate diverse protective and pathological responses. This session highlights recent advances in our understanding of skin and mucosal immunity, focusing on epithelial–immune interactions, the integration of innate and adaptive responses, and cytokine signaling networks. Presentations address mechanisms underlying inflammatory disorders such as psoriasis and atopic dermatitis, as well as novel approaches including oral vaccination strategies. Together, these studies provide new insights into barrier immunity and identify potential therapeutic targets for chronic inflammatory and infectious diseases.

WS05-01-O/P

Keratinocyte Cx26 Gain-of-Function Mutation Compromises Anti-Candida Skin Defense via Impaired Sensing and Chemokine Production

◯ Alshimaa Mostafa[1)], Teruasa Murata [2)], Akihiko Kitoh[1)], Kenji Kabashima[1)]

[1)]Department of Dermatology, Kyoto University Graduate School of Medicine, Japan, [2)]Department of Dermatology, Hyogo Medical University, Japan

WS05-04-O/P

Identification of an Atypical Keratinocyte Subset as the Primary Source of IL-23 in Psoriatic Skin Inflammation

◯ Yoonha Lee[1)], Daiya Ohara[1, 2)], Hiroki Mukoyama[1, 3)], Yusuke Takeuchi[1, 3)], Kazuki Sakatoku[1)], Hitomi Watanabe[1)], Akinori Takaoka[4)], Toshiaki Ohteki[5)], Junji Takeda[6)], Gen Kondoh[1)], Hideo Harigae[7)], Keiji Hirota[1, 8)]

[1)]Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan., [2)]The Hakubi Center for Advanced Research, Kyoto University, Kyoto, Japan, [3)]Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, [4)]Division of Signaling in Cancer and Immunology, Institute for Genetic Medicine, Hokkaido University, Hokkaido, Japan, [5)]Department of Biodefense Research, Medical Research Laboratory, Institute of Integrated Research, Institute of Science Tokyo, [6)]Research Institute for Microbial Diseases, The University of Osaka, Osaka, Japan, [7)]Department of Hematology, Tohoku University Hospital, Sendai, Japan., [8)]ImmunoSensation Cluster of Excellence, University of Bonn, Bonn, Germany

WS05-06-O/P

Spatial reconstitution of inducible skin-associated lymphoid tissue (iSALT) uncovers local crosstalk between CD301b+ cDC2 and CD8+ T cell in contact dermatitis

◯ Fuuka Minami[1)], Ryota Asahina[1, 2)], Akiyoshi Senda[1)], Gyohei Egawa[3)], Satoshi Nakamizo[1)], Kenji Kabashima[1)]

[1)]Department of Dermatology, Kyoto University, [2)] Center for One Medicine Innovative Translational Research (COMIT), Gifu University, [3)]Department of Dermatology, Kagoshima University

WS05-07-O/P

CXCL16–CXCR6 axis anchors epidermal CD8$^+$ TRM cells to promote recall responses in a contact hypersensitivity model

◯ Takahide Iioka[1)], Ryota Asahina[1, 2)], Fuuka Minami[1)], Toshiya Miyake[1)], Kenji Kabashima[1)]

[1)]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2)]Center for One Medicine Innovative Translational Research, Gifu University, Gifu, Japan

WS05-12-O/P

Dry skin–associated neonatal immune dysregulation in Langerhans cells triggers atopic dermatitis development

◯ Tomoka Ito[1)], Reika Aoyama[1)], Seitaro Nakagawa[1, 2)], Naohiro Inohara[3)], Yoko Ichikawa[4)], Naoki Shimojo[5)], Manabu Fujimoto[1, 6)], Yumi Matsuoka-Nakamura[1, 2, 7)]

[1)]Department of Dermatology, Graduate School of Medicine, The University of Osaka, [2)]Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, The University of Osaka, [3)]Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, [4)]Ichikawa Clinic, [5)]Center for Preventive Medical Sciences, Chiba University, [6)]Cutaneous Immunology, Immunology Frontier Research Center, The University of Osaka, [7)]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, The University of Osaka

WS05-13-O/P

Constipation-Induced Gut Dysbiosis Aggravates Acne through Tryptophan Metabolites Depletion

◯ Masakazu Tamai[1, 2)], Takashi Sugihira[1, 2)], Manabu Fujimoto[1, 3)], Yumi Matsuoka-Nakamura[1, 2)]

[1)]Department of Dermatology, Graduate School of Medicine, The University of Osaka, [2)]Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, The University of Osaka, [3)]Cutaneous Immunology, Immunology Frontier Research Center, The University of Osaka

WS05-14-O/P

Th17-Derived RANKL Drives Club-to-M Cell Transdifferentiation to Aggravate Secondary Bacterial Pneumonia

◯ Shunsuke Kimura[1, 2], Shingo Kawai[1], Takahiro Yamada[1], Yutaka Nakamura[1], Koji Hase[1]
[1]Faculty of Pharmaceutical Sciences, Hokkaido University, [2]Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University

WS05-16-O/P

Alcaligenes lipid A acts as a potent sublingual vaccine adjuvant to augment protective immune responses both in the respiratory and gastrointestinal tracts

◯ Ken Yoshii[1], Yuki Hirayama[1, 2], Keigo Iemitsu[1, 3], Hiroshi Kiyono[4, 5, 6], Jun Kunisawa[1, 2, 3, 4, 7, 8, 9, 10]
[1]National Institutes of Biomedical Innovation, Health and Nutrition, [2]Graduate School of Pharmaceutical Sciences, The University of Osaka, [3]Graduate School of Medicine, The University of Osaka, [4]International Research and Development Center for Mucosal Vaccines, The Institute of Medical Science, The University of Tokyo, [5]Division of Gastroenterology, Department of Medicine, University of California San Diego (UCSD) School of Medicine, UC San Diego, [6]Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Chiba University, [7]Graduate School of Science, The University of Osaka, [8]Graduate School of Dentistry, The University of Osaka, [9]Graduate School of Medicine, Kobe University, [10]Research Organization for Nano and Life Innovation, Waseda University

WS06 B cell development, activation, and antibody production

14:00 ~ 15:15 Room F

Chairpersons: Wataru Ise, Saya Moriyama

B cells play a central role in humoral immunity in concert with helper T cells. B cells undergo multiple stages of differentiation before and after becoming mature B cells. Upon antigen stimulation, B cells become activated, undergo class-switching, and further differentiate into plasma cells, which are specialized effectors that secrete antibodies to sustain humoral immunity. In this workshop, we will highlight recent advances in B cell development and activation, T cell-independent B cell responses, and antibody production, with particular focus on self-reactive antibodies.

WS06-01-O/P

The interplay between transcription factors E2A and Erg shapes the enhancer landscape underlying B cell identity and signature gene expression

◯ Reiko Hidaka[1, 2], Kazuko Miyazaki[1, 2], Hiroshi Kawamoto[1, 2], Masaki Miyazaki[1, 2]
[1]Kyoto University, [2]Institute for Life and Medical Sciences

WS06-02-O/P

In vivo acute degradation of E2A reveals its enhancer regulations in early lymphocyte development and activation

◯ Rei Kuwata[1], Kazuko Miyazaki[1], Hitomi Watanabe[1], Ichiro Taniuchi[2], Hiroshi Kawamoto[1], Masaki Miyazaki[1]
[1]Kyoto University, [2]RIKEN Center for Integrative Medical Sciences

WS06-03-O/P

EMC1 enforces an ER-integrated checkpoint for B cell activation and humoral immunity

◯ Kazuhiko Kawata, Yoshihiro Baba
Division of Immunology and Genome Biology, Medical Institute of Genome Bioregulation, Kyushu University

WS06-04-O/P

CD72 is a novel C1q receptor that inhibits B cell responses to apoptotic cells, crucial in the development of SLE

◯ Hashadi Nadeesha Walakulu Gamage[1, 2], Takeshi Tsubata[1, 2], Nadeesha Gayathri Hewassa Gamage[1], Chizuru Akatsu[1], Tsuneshige Takahiro[1], Nobutaka Numoto [1], Masatake Asano[2], Nobutoshi Ito[1]
[1]Institute of Science Tokyo , [2]Department of Pathology, Nihon University

WS06-09-O/P

The importance of IL-1 - IL-1 receptor signaling to T-cell-independent type 2 responses

◯ Mari Tenno, Daisuke Kitamura
Tokyo University of Science

WS06-11-O/P

In vivo conversion to broader and non-self-reactive influenza virus-specific antibody

◯ Chieko Okamura[1, 2], Hikaru Hata[2, 3], Takashi Watanabe[4], Mikako Shirouzu[5], Ryota Sato[2, 3], Qingshun Lin[2], Taishi Onodera[6], Yoshimasa Takahashi[6], Quan-Zhen Li[7], Yoshinobu Okuno[8], Tomohiro Kurosaki[2, 9], Hidehiro Fukuyama[1, 2, 3, 10]

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WS06-13-O/P

Identification of autoantibodies promoting remyelination in aging

◯ Ayame Nagafuchi[1], Mana Iizuka[2], Ako Matsui[1], Akihiko Yoshimura[2], Minako Ito[1]

[1]Kyushu Univercity, [2]Tokyo University of Science

WS07 Tolerance and Immune Suppression

14:00 ~ 15:15 Room G

Chairpersons: Akihiro Yoshimura, Ryoji Kawakami

Our immune system employs mechanisms to induce immunological tolerance by suppressing excessive response to antigens that should be accepted, such as self-antigens and commensal bacteria. This workshop will engage in a cross-disciplinary discussion of the diverse mechanisms that comprise Tolerance and Immune Suppression. We highlight current cutting-edge research on the differentiation, function, and mechanisms of antigen-specific immune suppression by regulatory T (Treg) cells. In addition, we will focus on the environmental cues that promote Treg cells and tolerance induction, including development of the thymus, which governs T cell differentiation and clonal selection, as well as on the functional and developmental programs of antigen-presenting cells in the tissue microenvironment.

WS07-01-O/P

Targeted cell by Treg suppression in vitro and in vivo

◯ Yoshihiro Oya[1, 2, 4], Takuya Nakazawa[2], Ryutaro Matsumura[2], Hiroshi Nakajima[3], Ethan M Shevach[4]

[1]Laboratory of Autoimmune diseases, NHO Chiba Medical Center Chibahigashi National Hospital, [2]Allergy & Clinical Immunology, National Hospital Organization Chibahigashi National Hospital, [3]Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, [4]Laboratory of Immune System Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health

WS07-02-O/P

A Foxp3-dependent core epigenetic and transcriptional program in Tregs

◯ Yuxi Wei, Ryuichi Murakami, Akira Nakajima, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS07-03-O/P

Runx/Cbfβ regulates the development of tolerogenic Thetis cells

◯ Chihiro Ogawa, Ichiro Taniuchi

RIKEN Center for Integrative Medical Sciences

WS07-04-O/P

Combinatorial analysis of spatial transcriptomics and scRNA-Seq reveals the influence of aging on the differentiation program of thymic epithelial cells

◯ Kano Namiki[1, 2], Takahisa Miyao[1], Nobuko Akiyama[1, 2], Taishin Akiyama[1, 2]

[1]RIKEN Center for Integrative Medical Sciences, [2]Laboratory of Immunobiology, Graduate School of Medical Life Science, Yokohama City University

WS07-05-O/P

Gravity reduction leads to upregulation of the transcription factor ELF3 in the thymus, which disrupts the thymic epithelial cell differentiation program

◯ Wataru Muramatsu[1], Nobuko Akiyama[1, 2], Takahisa Miyao[1], Masafumi Muratani[3], Takashi Kudo[4], Satoru Takahashi[4], Taishin Akiyama[1, 2]

[1]Laboratory for Immune Homeostasis, RIKEN Center for Integrative Medical Science, [2]Immunobiology, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan, [3]Department of Genome Biology, Transborder Medical Research Center, Institute of Medicine, University of Tsukuba, [4]Laboratory Animal Resource Center in Transborder Medical Research Center, and Department of Anatomy and Embryology, Institute of Medicine, University of Tsukuba

WS07-06-O/P

Immunopeptidomic identification of SLA-derived HLA class II ligands recognized by human T cells, using a strategy adapted for xenotransplantation

◯ Kenta Iwasaki[1)], Ken Kawasa[2)], Susumu Tomono[3)], Yuko Miwa[1)], Masato Shizuku[2)], Satoshi Ashimine[2)], Kohei Ishiyama[2)], Ekser Burcin[4)], Sachiko Akashi-Takamura[3)], Takaaki Kobayashi[2)]

[1)]Department of Kidney Diseases and Transplant Immunology, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan., [2)]Department of Renal Transplant Surgery, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan., [3)]Department of Microbiology and Immunology, Aichi Medical University School of Medicine, Nagakute, Aichi, Japan., [4)]Division of Abdominal Transplant Surgery, Stritch School of Medicine, Loyola University Chicago, Maywood, Illinois, USA.

WS07-07-O/P

Function of ectopic MHC class II expression on non-immune cells in immune response

◯ Wataru Nakai[1, 2)], Hisashi Arase[1, 2, 3, 4, 5)]

[1)]Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, [2)]Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, The University of Osaka, [3)]Regulation of Host Defense Team, Center for Infectious Disease Education and Research, The University of Osaka, [4)]Center for advanced modalities and DDS, The University of Osaka, [5)]Center for Infectious Disease Education and Research, The University of Osaka

WS08 CD8+ T cell immunity

15:25 ~ 16:40 Room A

Chairpersons: Shiki Takamura, Aneela Nomura

CD8+ T cells are vital for the host defense against infection and cancer. Depending on the context, they differentiate into distinct memory subsets with tailored functions or may enter a state of exhaustion, losing their effector functions. In some circumstances, CD8+ T cells can also contribute to tissue damage and pathogenesis, highlighting their dual nature in immunity and disease. Hence, understanding the key processes regulating the function and metabolic state of CD8+ T cells will uncover strategies to improve their immunity against both pathogenic and malignant diseases and can also have further counterapplications for treating autoimmune diseases. In this workshop, we will showcase 7 abstracts for oral presentation, which will all explore the molecular mechanisms of effector/memory CD8+ T cell differentiation and dissect the environments supporting their immune functions.

WS08-01-O/P

TAP-independent induction of N-myristoylated lipopeptide-specific CTLs in transgenic mice expressing rhesus lipopeptide-presenting MHC class I molecules

◯ Hiromu Suzuki[1, 2)], Daisuke Morita[1)]

[1)]Laboratory of Cell Regulation, Institute for Life and Medical Sciences, Kyoto University, [2)]Laboratory of Cell Regulation and Molecular Network, Graduate School of Biostudies, Kyoto University

WS08-02-O/P

Strategy for achieving both safety and efficacy of CTL-inducing vaccines using a low molecular drug

◯ Kensuke Takada[1)], Zimeng Cai[2, 3)], Mina Kozai[1)], Kazuhiro Matsuo[1)]

[1)]Institute for Vaccine Research and Development, Hokkaido University, [2)]Faculty of Veterinary Medicine, Hokkaido University, [3)]Shanghai Immune Therapy Institute Shanghai, Jiao Tong University

WS08-03-O/P

Vitamin C transporter 2, Slc23a2, is required for normal T cell development and optimal CD8+ T cell immune responses

◯ Kenta Kondo[1)], Mina Kumode[1, 2)], Tatsuya Hasegawa[1)], Noriyuki Sugo[3)], Yasutoshi Agata[1)]

[1)]Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, [2)]Department of Hepatology, Shiga University of Medical Science, Shiga, Japan, [3)]Graduate School of Frontier Biosciences, The University of Osaka

WS08-04-O/P

MHC class II restrains colonic CD8 T cell activation via CD4 T cells and LAG-3

◯ Tomoya Sengiku[1)], Masato Kubo[2, 3)], Takumi Maruhashi[4)], Taku Okazaki[4)], Shohei Hori[1)], Ruka Setoguchi[1)]

[1)]Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, [2)]Research Institute for Biomedical Science, Tokyo University of Science, [3)]Research Center for Integrative Medical Science (IMS), RIKEN Yokohama Institute, [4)]Laboratory of Molecular Immunology, Institute for Quantitative Bioscience, The University of Tokyo

WS08-05-O/P

Dysfunctional Mitochondria Promotes DNA Damage and T Cell Exhaustion in CD8+ T Cells

◯ Kung-Chi Kao, Yu-Ming Chuang, Ping-Chih Ho

University of Lausanne

WS08-06-O/P

Single-Cell and Spatial Transcriptomics Reveal Distinct Immune Features in Oral squamous cell carcinoma and IgG4-Related Disease

◯ Ling Zhang[1)], Takashi Maehara[1, 2)], Marina Koga[1)], Risako Koga[1)], Ryuichi Aoyagi[1)], Yuuka Toda[1)], Ryusuke Munemura[1)], Shintaro Kawano[1)]

[1)]Section of Oral and Maxillofacial Oncology, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, Fukuoka, Japan, [2)]Dent-craniofacial Development and Regeneration(DDR)Research Center, Faculty of Dental Science, Kyushu University, Fukuoka, Japan

WS08-07-O/P

Bystander expansion of GzmK^{+}GzmB^{+} CD8 T cells in the joint of rheumatoid arthritis

◯ Takahiro Natori[1)], Hisakata Yamada[2)], Ryosuke Tsurui[1)], Shinya Kawahara[1)], Yukio Akasaki[1)], Yasuharu Nakashima[1)]

[1)]Department of Orthopedic Surgery, Kyushu University, [2)]Department of Immunology, Kochi University

WS09 Tumor Immunity - Microenvironment

15:25 ~ 16:40 Room B

Chairpersons: Ken-ichiro Seino, Maiko Hajime-Sumikawa

"Tumor immunity" has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year's "Tumor immunity" workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining "Microenvironment", highlighting its roles and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

WS09-03-O/P

Redistribution of Intratumoral Iron with Polymeric Iron Chelator Boosts Antitumor Immunity

◯ Haochen Guo[1)], Nobuhiro Nishiyama[1, 2, 3)], Takahiro Nomoto[4)]

[1)]Innovation Center of Nanomedicine (iCONM), Kawasaki Institute of Industrial Promotion, [2)]Department of Life Science and Technology, School of Life Science and Technology, Institute of Science Tokyo, [3)]Laboratory for Chemistry and Life Science, Institute of Integrated Research, Institute of Science Tokyo, [4)]Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo

WS09-04-O/P

Hierarchical immune suppression by Tregs via TGFβ1-induced macrophage programming_x000D_ in cancers

◯ Qiao Gou, Hiroyuki Takaba, Hiroshi Takayanagi

The University of Tokyo

WS09-07-O/P

Expanding the Application of IgNAR Antibodies derived from Shark for Next-next-generation Cancer Antibody Therapeutics

◯ Yuki Nitta[1, 2)], Wataru Takagi[3)], Susumu Hyodo[3)], Masahiro Yasunaga[1, 2)]

[1)]The University of Tokyo, Graduate School of Frontier Sciences, [2)]National Cancer Center, [3)]The University of Tokyo, Atmosphere and Ocean Research Institute

WS09-10-O/P

Induction of tertiary lymphoid structures via chemokine-based immunotherapy for solid tumors

◯ Taro Suzuki, Keitaro Kanie, Tomoko Ishii, Shin Kaneko

Kyoto University

WS09-11-O/P

The effect of acrolein on anti-tumor effects and its relationship with ferroptosis

◯ Koki Ichimaru, Koji Kitaoka, Yasuharu Haku, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto

Department of Immunotherapy and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University School of Medicine

WS09-14-O/P

Modulation of the tumor microenvironment by allogeneic cell transfer enhances PD-1 blocIkade efficacy via inhibition of T cell exhaustion

◯ Ryotaro Imagawa, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto

Kyoto University

WS09-15-O/P

Repetitive Fasting-Refeeding Synergizes with Metformin to Promote CXCR6+ CD8T cell Migration to Tumors via VCAM-1 on Normalized Tumor Vasculature in the Refeeding Phase

◯ Weiyang Zhao[1)], Miho Tokumasu[1)], Mikako Nishida[2)], Natsumi Imano[1)], Nahoko Yamashita[2)], Heiichiro Udono[2)]
[1)]Department of Immunology, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences, [2)]Department of Metabolic Immune Regulation, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences

WS10 Thymus and lymph nodes

15:25 ~ 16:40 Room C

Chairpersons: Izumi Ohigashi, Masaki Miyazaki

The thymus and lymph nodes (LNs) provide the microenvironment necessary for the generation and activation of T cells. In the thymus, immature T cells develop and undergo selection, in which “immunocompetent” and “self-tolerant” T cells are generated through positive and negative selection, based on the strength of T cell receptor signaling. Additionally, “agonist-selection” is important for the generation of regulatory T cells and innate-like T cells such as NKT cells. Following thymic egress, T cells migrate to the LNs, where they encounter specific antigens presented by dendritic cells and become activated. In this workshop, we will share and discuss current findings to advance our understanding of the precise mechanisms of T cell selection in the thymus, as well as its migration and activation in LNs in mice and humans, and their implications for next-generation T cell therapy.

WS10-01-O/P

Roles of TfR1-mediated iron homeostasis in the initiation of T-lineage program

◯ Yuichi Kama, Hiroyuki Hosokawa
Department of Immunology, Tokai University School of Medicine

WS10-02-O/P

CD69 regulates agonist TCR signaling

◯ Yukihiro Endo, Nanako Yasujima, Tatsuya Ueno, Taiyo Sasayama, Motoko Y. Kimura
Graduate School of Medicine, Chiba University

WS10-03-O/P

Regulation of TCR activation threshold by transcription factor SATB1

◯ Taku Naito, Marii Ise, Yuriko Tanaka, Shuhei Mashimo, Michitsune Arita, Taku Kuwabara, Motonari Kondo
Toho University School of Medicine

WS10-04-O/P

Unveiling kinase-transcription factor axis that couples invariant TCR signaling to iNKT cell generation

◯ Eri Ishikawa[1, 2)], Sho Yamasaki[1, 2, 3, 4)]
[1)]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, [2)]Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, [3)]Center for Infectious Disease Education and Research (CiDER), The University of Osaka, [4)]Center for Advanced Modalities and DDS (CAMaD), The University of Osaka

WS10-05-O/P

Characterization of a spontaneous severe combined immunodeficient strain of mice

◯ Masatsugu Oh-hora[1)], Daisuke Motooka[2)], Mio Narita[1)], Norikazu Yabuta[3)], Sho Yamasaki[3)], Takehiko Yokomizo[4)]
[1)]Dept. of Immunology, Faculty of Medicine, Saitama Medical University, [2)]NGS core facility, Research Institute of Microbial Diseases, Osaka University, [3)]Dept. of Molecular Immunology, Research Institute of Microbial Diseases/Immunology Frontier Research Center, The University of Osaka, [4)]Dept. of Biochemistry, Juntendo University School of Medicine

WS10-06-O/P

Generation of human T/NK progenitor cells as a source of CAR-T/NK cell therapy

◯ Karin Noma
Tokyo University of Science

WS10-10-O/P

Reconstruction of a lymph node-like structure by transplantation of a centrifuge-based bioengineered lymphatic tissue

◯ Shu Obana, Shoko Itakura, Makiya Nishikawa, Kosuke Kusamori
Faculty of Pharmaceutical Sciences, Tokyo University of Science

WS11 Cytokines and Chemokines

15:25 ~ 16:40 Room D

Chairpersons: Satoshi Ueha, Etsuko Toda

Cytokines and chemokines orchestrate immunity in diverse physiological and pathological settings—including aging, oral barrier function, infection, cancer, and neurological or vascular disease—while their dysregulation drives chronic inflammation, autoimmunity, and malignancy. Our speakers will reveal mechanisms by which these mediators shape immune cell behavior, guiding migration and controlling inflammation to link local events with systemic outcomes. We will also highlight groundbreaking research, including new insights from single-cell and spatiotemporal profiling, and discuss therapeutic applications in vaccine design, tumor control, and treatment of chronic inflammation. This session aims to integrate core scientific discoveries with translational goals, inspiring the next wave of immune-based therapies. Each presentation will be an 8-minute talk followed by a 2-minute discussion.

WS11-01-O/P

IL-17A+ Treg cells are increased with age, and enhance accumulation of senescent cells in dermis

◯ Yuichiro Ogata[1)], Takaaki Yamada[1, 2, 3)], Yoshie Ishii[1, 2)], Masaru Arima[3)], Yohei Iwata[3)], Seiji Hasegawa[1, 3, 4)], Kazumitsu Sugiura[3)], Hirohiko Akamatsu[2)]

[1)]Research Laboratories, Nippon Menard Cosmetic Co., Ltd., 2-7 Torimi-cho, Nishi-ku, Nagoya, Aichi, Japan., [2)]Department of Applied Cell and Regenerative Medicine, Fujita Health University School of Medicine, 1-98 Dengakugakubo, Kutsukakecho, Toyoake, Aichi, Japan., [3)]Department of Dermatology, Fujita Health University School of Medicine, 1-98 Dengakugakubo, Kutsukakecho, Toyoake, Aichi, Japan., [4)]Nagoya University-MENARD Collaborative Chair, Nagoya University Graduate School of Medicine, 65 Tsurumaicho, Showa-ku, Nagoya, Aichi, Japan.

WS11-03-O/P

The immunological crosstalk between IL-33+ ductal cells of von Ebner's glands and ILC2s orchestrates oral barrier function

◯ Satoshi Koga[1)], Kazuyo Moro[1, 2, 3)]

[1)]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2)]Laboratory for Innate Immune Systems, RIKEN-IMS, [3)]Laboratory for Innate Immune Systems, IFReC, The University of Osaka

WS11-10-O/P

Live FluoroSpot: Spatiotemporal Profiling of Cytokine Secretion at Single-Cell Resolution

◯ Zhuohao Yang[1)], Mai Yamagishi[2)], Nobutake Suzuki[1)], Takumi Adachi[3)], Koji Nagaoka[4)], Satoshi Yotsumoto[5)], Masato Tanaka[5)], Kazuyo Moro[6)], Kazuhiro Kakimi[4)], Takashi Kamatani[7)], Etsushi Kuroda[3)], Yoshitaka Shirasaki[1)]

[1)]The University of Tokyo, [2)]Live Cell Diagnosis, Ltd., [3)]Hyogo Medical University, [4)]Kindai University, [5)]Tokyo University of Pharmacy and Life Sciences, [6)]The University of Osaka, [7)]Institute of Science Tokyo

WS11-15-O/P

Reciprocal roles of interleukin-33 in a lipid nanoparticle-based mRNA vaccine-induced cytotoxic T cell and type 2 responses

◯ Kaiwen Liu[1, 2, 3)], Kouji Kobiyama[1, 2, 3)], Naoko Satoh-Takayama[4)], Tomoya Hayashi[1, 2, 3)], Burcu Temizoz[1, 2, 3)], Hideo Negishi[1, 2, 3)], Asuka Tobuse[1)], Mai Onaga[1)], Peter Katsikis[6)], Cevayir Coban[2, 3, 5)], Ken Ishii[1, 2, 3)]

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WS11-16-O/P

Elucidation of the CNS Infiltration Mechanism in Acute Lymphoblastic Leukemia via IL-7R Signaling and Development of a Targeted Antibody–Drug Conjugate Therapy

◯ Motochika Hamada, Masahiro Yasunaga

National Cancer Center Exploratory Oncology Research & Clinical Trial Center

WS11-17-O/P

RNF213 promotes NF-κB-mediated inflammation via IL-6 amplifier in Moyamoya disease

◯ Shintaro Hojyo[1, 4, 7)], Mitsutaka Yasuda[1, 2)], Kaoru Murakami[1)], Jing-Jing Jiang[1, 3)], Yuki Tanaka[4)], Hiroki Tanaka[1)], Rie Hasebe[5)], Takeshi Yamasaki[5)], Ari Hashimoto[6)], Tatsuya Atsumi[2)], Shigeru Hashimoto[1)], Masaaki Murakami[1, 4, 5, 7)]

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WS11-18-O/P

Neutrophil-secreted IL-23 p19 monomer attenuates type 17 immunity

◯ Daiya Ohara[1)], Kazuki Sakatoku[1)], Hitomi Watanabe[1)], Toshiaki Ohteki[2)], Gen Kondoh[1)], Keiji Hirota[1)]
[1)]Kyoto University, [2)]Institute of Science Tokyo

WS12 Innate inflammation and diseases

15:25 ~ 16:40 Room E

Chairpersons: Satoshi Matsuda, Kensuke Miyake

Recent studies have shown that inflammation mediated by innate immune pathways is central to diverse contexts, including aging-associated tissue inflammation, responses to bacterial and viral TLR ligands, and chronic inflammation linked to obesity. Inflammasome activation by endogenous danger signals also contributes to autoimmune and other inflammatory disorders. Together, these findings have led to the concept of innate inflammation, emphasizing the fundamental role of innate immune circuits in disease. To better understand pathological states such as aging, obesity, and infection, it is essential to re-examine these processes through the framework of innate inflammation. This session will provide a forum to discuss the molecular basis of innate inflammation and its implications for redefining disease mechanisms.

WS12-03-O/P

Therapeutic Modulation of GLP-1 Restores Mucosal Immunity during diet-modulated colits

◯ Leonie Brockmann[1, 3)], Carlotta Ronda[2)], Harris Wang[3)]
[1)]Keio University Human Biology- Microbiome- Quantum Research Center (Bio2Q), [2)]UC Berkley Innovative Genomics Institute, [3)]Columbia University

WS12-04-O/P

Production of artificial gut microbiota for transplantation with an IgA antibody

◯ Kengo Sasaki, Keishu Takahashi, Ryutaro Tamano, Genta Furuya, Naoki Morita, Peng Gao, Reiko Shinkura
The University of Tokyo

WS12-07-O/P

Pattern Recognition Receptors in Syncytiotrophoblast: Roles in Antiviral Defense and Pregnancy Complications

◯ Kenichiro Motomura[1, 2, 3, 4)], Hiromichi Yamamoto[2, 5)], Masato Tamari[2)], Naoko Nagano[2)], Yuka Hayashi[2)], Hideaki Morita[2, 6)], Hironori Takahashi[5)], Seiji Wada[4)], Hiromi Komiya[7)], Hirohisa Saito[2)], Kenji Matsumoto[2)]
[1)]Division of Immuno-Biomedical Research, Integrated Center for Women's Health, National Center for Child Health and Development, [2)]Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development, [3)]Division of Molecular Pharmacology, Department of Pharmacology, National Research Institute for Child Health and Development, [4)]Center for Maternal-Fetal, Neonatal and Reproductive Medicine, National Center for Child Health and Development, [5)]Department of Obstetrics and Gynecology, Jichi Medical University, [6)]Allergy Center, National Center for Child Health and Development, [7)]Integrated Center for Women's Health, National Center for Child Health and Development

WS12-09-O/P

Tetratricopeptide repeat and ankyrin repeat containing 1 (Trank1) regulates chemokine expression during infection and is implicated in the pathogenesis of psychiatric disorders

◯ Takahisa Kouwaki, Hiroyuki Oshiumi
Kumamoto University

WS12-11-O/P

Virus-induced CD5L/AIM reprograms innate immunity to enable concurrent viral clearance and tissue repair during acute influenza infection

◯ Satoko Arai, Toru Miyazaki
The Insitute for AIM Medicine

WS12-13-O/P

Investigation of innate immune responses in Rhinolophus bats in vivo

◯ Kaoru Usui[1)], Ziyi Guo[1)], Shigeru Fujita[1)], Alfredo Hinay[1)], Yukie Kashima[2)], Yutaka Suzuki[2)], Jumpei Ito[1)], Kei Sato[1)]
[1)]Division of Systems Virology, The Institute of Medical Science, The University of Tokyo, [2)]Life Science Data Research Center, Graduate School of Frontier Sciences, The University of Tokyo

WS12-15-O/P

Dissecting the complex inflammatory response in pyrin-associated autoinflammatory diseases

◯ Yoshitaka Honda[1)], Naoya Iwata[2)], Yoshihiko Kuchitsu[3)], Atsushi Hijikata[4)], Hirofumi Shibata[2)], Kazushi Izawa[2)], Tomohiko Taguchi[3)], Hideki Ueno[1, 5)], Takahiro Yasumi[2, 6)]
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WS12-16-O/P

HUMAN DBR1 IS A BRAINSTEM GATE-KEEPER OF IMMUNITY TO A BROAD RANGE OF VIRUSES

◯ Koji Nakajima[1, 2, 3], Yi-Hao Chan[4], Danyel Lee[1, 2, 3], Noopur Khobrekar[5], Oliver Harschnitz[6], Lorenz Studer[5], Jean-Laurent Casanova[1, 2, 3, 7, 8], Shen-Ying Zhang[1, 2, 3]

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WS13 B cell maturation, plasma cell differentiation and function

15:25 ~ 16:40 Room F

Chairpersons: Kazuhiro Suzuki, Takeshi Inoue

This session focuses on the processes of B cell maturation, plasma cell differentiation and function, with particular emphasis on the role of germinal centers (GCs). Within GCs, B cells undergo affinity maturation and class-switch recombination, ultimately giving rise to long-lived plasma cells and memory B cells. These mechanisms are essential for establishing durable humoral immunity after infection or vaccination. This session will highlight recent advances in understanding how signals within the GC microenvironment influence B cell fate decisions, and how these insights inform the development of vaccines and immunotherapies targeting infectious diseases and autoimmunity.

WS13-01-O/P

In vitro induction of human germinal centre B-cells

◯ David Priest[1], Wataru Ise[2, 3], James Wing[1, 3, 4]

[1]Human Single Cell Immunology Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Suita, Osaka, Japan, [2]Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, The University of Osaka, Osaka, Japan, [3]Center for Advanced Modalities and DDS (CAMaD), The University of Osaka, Osaka, Japan, [4]Laboratory of Human Single Cell Immunology, World Premier International Research Center Initiative Immunology Frontier Research Center (WPI-IFReC), The University of Osaka, Suita, Osaka, Japan

WS13-04-O/P

Somatic hypermutation generates autoreactive B cells without autoreactive T cell help

◯ Wataru Okada, Daisuke Fujimori, Sawa Ishii, Wakana Takahashi, Miya Yoshino, Koji Tokoyoda

Tottori University

WS13-07-O/P

Regulation of selective class-switching provides long term therapeutic benefits for hay fever

◯ Naoki Morita[1], Takahiro Nagatake[3], Takenori Inomata[6], Takahiro Adachi[2], Yasuhiro Yamada[4], Manabu Sugai[7], Keiichi I. Nakayama[8], Hirotatsu Kojima[5], Reiko Shinkura[1]

[1]Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, [2]Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University, [3] Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, [4] Department of Molecular Pathology, Graduate School of Medicine, The University of Tokyo, [5]Drug Discovery Initiative, Graduate School of Pharmaceutical Sciences, The University of Tokyo, [6]Department of Ophthalmology, Juntendo University Graduate School of Medicine, [7]Department of Molecular Genetics, Division of Medicine, Faculty of Medical Sciences, University of Fukui, [8]Anticancer Strategies Laboratory, TMDU Advanced Research Institute, Tokyo Medical and Dental University

WS13-09-O/P

Local antigen-dependent generation of plasma cells in bone marrow

◯ Toshiro Hirai[1, 2, 3, 4], Yasuo Yoshioka[1, 2, 3, 4, 5]

[1]Institute for Open and Transdisciplinary Research Initiatives, The University of Osaka, [2]Research Institute for Microbial Diseases, The University of Osaka, [3]Graduate School of Pharmaceutical Sciences, The University of Osaka, [4]Center for Advanced Modalities and DDS, The University of Osaka, [5]The Research Foundation for Microbial Diseases, The University of Osaka

WS13-10-O/P

Induction of Metal-Responsive Genes by LLPC-Associated Survival Cytokines in Plasma Cells

◯ Ari Itoh-Nakadai[1], Maiko Kobayashi[1], Masayuki Shirota[3], Ryo Funayama[4], Yasuhiro Yoshida[5], Keiko Nakayama[4], Toshiyuki Takai[2]

[1]Department of Hygiene and public Health, Nippon Medical School, [2]Department of Experimental Immunology, IDAC, Tohoku University, [3]Department of AI and Innovative Medicine, UCARTM, Tohoku University Graduate School of Medicine, [4]Department of Cell Proliferation, UCARTM, Tohoku University Graduate School of Medicine, [5]Department of Immunology and Parasitology, School of Medicine, University of Occupational and Environmental Health, Japan

WS13-13-O/P

Autoreactivity, NETosis, and Fibrosis: Functional Implications of MZB1^{+} Plasma Cells in Skin Disease

◯ Akitaka Hata, Takayoshi Komatsu-Fujii, Du Yaxin, Toshiaki Kogame, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

WS13-14-O/P

Differential BCR signaling and antigen presentation activity in IgG B cells contribute to positive selection into bone marrow IgG over IgM plasma cells

◯ Yuki Tai[1, 2)], Takuya Koike[2, 3)], Wataru Ise[1)], Tomohiro Kurosaki[2, 4)]

[1)]Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, The University of Osaka, [2)]Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, The University of Osaka, [3)]Center for New Generation Infectious Diseases, The University of Tokyo, [4)]Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences (IMS)

WS14 Tolerance and Immune suppression

15:25 ~ 16:40 Room G

Chairpersons: Ruka Setoguchi, Takumi Maruhashi

Immunological tolerance is essential for preventing pathological immune responses to self or pseudo-self antigens, thereby safeguarding against autoimmune and inflammatory diseases. Regulatory T cells and other inhibitory mechanisms, such as those mediated by immune checkpoint receptors, are emerging as promising therapeutic approaches for managing excessive inflammation beyond classical autoimmune disorders. This workshop will delve into antigen- and tissue-specific mechanisms of immune suppression, with a focus on their therapeutic potential. Each oral presentation will consist of an 8-minute talk followed by a 2-minute discussion. We warmly invite you to engage in active discussions throughout the oral and poster sessions.

WS14-01-O/P

Antigen-Specific Tolerance by mRNA for Therapeutic Applications

◯ Shota Imai, Tomoyoshi Yamano, Rikinari Hanayama

Department of Immunology, Graduate School of Medical Sciences, Kanazawa University

WS14-02-O/P

Cholesterol sulfate prevents maternal–fetal conflict by locally modulating immune reactivity

◯ Kazufumi Kunimura[1)], Kenichiro Hirotani[2)], Yuki Sugiura[3)], Yoshihiro Izumi[4)], Kenji Morino[1)], Takeshi Iwasaki[5)], Kanjiro Miyata[6)], Takeshi Mori[7)], Yasuyuki Ohkawa[8)], Yoshinao Oda[5)], Kiyoko Kato[2)], Yoshinori Fukui[1)]

[1)]Division of Immunogenetics, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University, [2)]Department of Obstetrics and Gynecology, Graduate School of Medical Sciences, Kyushu University, [3)]Multiomics Platform, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, [4)]Division of Metabolomics, Research Center for Transomics Medicine, Medical Institute of Bioregulation, Kyushu University, [5)]Department of Anatomic Pathology, Graduate School of Medical Sciences, Kyushu University, [6)]Department of Materials Engineering, Graduate School of Engineering, The University of Tokyo, [7)]Department of Applied Chemistry, Faculty of Engineering, Kyushu University, [8)]Division of Transcriptomics, Medical Institute of Bioregulation, Kyushu University

WS14-03-O/P

The regulatory role of neonatal thymic microenvironment in the onset of autoimmunity

◯ Shigefumi Matsuzawa[1, 2)], Aya Ushio[1, 3)], Ruka Nagao[1)], Kunihiro Otsuka[1)], Takaaki Tsunematsu[1)], Naozumi Ishimaru[1, 3)]

[1)]Department of Oral Pathology, Graduate school of Biomedical Sciences, Tokushima University, [2)]Section of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, [3)]Department of Oral Pathology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

WS14-04-O/P

Aryl hydrocarbon receptor agonists-loaded nanoparticles induce antigen-specific immune tolerance via regulatory B cells

◯ Takanatsu Hosokawa[1)], Takuro Yamada[1)], Yoshihiro Baba[2)], Takeshi Mori[1)]

[1)]Graduate School of Systems Life Sciences, Kyushu University, [2)]Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University

WS14-05-O/P

PD-1 suppresses inflammatory responses elicited by de novo genome mutagenesis in mice

◯ Yoshiya Kakimoto[1)], Ilamangai Nagaretnam [1)], Fuka Takeuchi[2)], Toshiaki Shigeoka[1)], Akihiko Ito[2)], Yasumasa Ishida[1)]

[1)]Nara Institute of Science and Technology, [2)]Kindai University Faculty of Medicine

WS14-06-O/P

Orally induced tolerance to skin immunization is mediated by mesenteric lymph node-derived Th cells via an integrin α4β7-dependent mechanism

◯ Arisa Akagi[1)], Rintaro Shibuya[2)], Sho Hanakawa[3)], Akihiko Kitoh[1)], Kenji Kabashima[1, 3)]

[1)]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2)]Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York City, NY, United States, [3)]Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Republic of Singapore

WS14-07-O/P **The role of antigen specificity in tissue Treg phenotypes and functions**

◯ Moeri Tsubaru, Yoshimichi Hoshiya, Ryuichi Murakami, Shohei Hori
Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

December 11

WS15 Tissue-specific T cell biology: Organ-dependent Functions and Diseases

15:40 ~ 16:55 Room A

Chairpersons: Kiyoshi Hirahara, Noriko Komatsu

T cell functions are shaped by the tissue microenvironments where they reside. This workshop focuses on the cutting-edge landscape of tissue-specific T cell biology, highlighting how organ-specific cues govern differentiation and functions of tissue-specific T cells. One of the key immune-cell populations is tissue-resident memory T (TRM) cells that provide the first response against reencountered pathogens. Novel aspects of tissue-specific T cells in the bone marrow, lung, synovium, and intestine will be discussed, aiming to understand their tissue-specific biology and to develop therapeutic strategies targeting organ-specific diseases.

WS15-01-O/P **Pathological analysis of tissue resident memory T Cells in inflammatory bowel disease**

◯ Naohiko Kinoshita, Mari Murakami, Kiyoshi Takeda
The University of Osaka

WS15-02-O/P **Hepatic leukemia factor directs tissue residency of proinflammatory CD4+ T cells**

◯ Masahiro Kiuchi[1)], Masahiro Nemoto[1)], Hiroyuki Yagyu[1)], Chiaki Iwamura[1, 2)], Hikaru Sugimoto[3)], Yuki Masuo[4)], Kanae Ohishi[1)], Eiryo Kawakami[3)], Hideki Ueno[4)], Damon J Tumes[5)], Toshinori Nakayama[1, 6)], Kiyoshi Hirahara[1, 2, 6)]
[1)]Department of Immunology, Graduate School of Medicine, Chiba University, [2)]Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University, [3)]Predictive Medicine Special Project (PMSP), RIKEN Center for Integrative Medical Sciences (IMS), RIKEN, [4)]Department of Immunology, Graduate School of Medicine, Kyoto University, [5)]Centre for Cancer Biology, SA Pathology and the University of South Australia, [6)]AMED-CREST, AMED

WS15-03-O/P **CD69 regulates the tissue dynamics of epigenetically imprinted memory CD4+ T cells**

◯ Chiaki Iwamura[1, 2)], Rui Hirasawa[1)], Kiyoshi Hirahara[1, 2)]
[1)]Department of Immunology, Chiba University, [2)]Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University

WS15-04-O/P **Withdrawn**

WS15-05-O/P **Identification of a novel subset of lung tissue-resident memory T cells that supports long-lasting local immunity**

◯ Kosuke Kitahata[1)], Diego Diez[2)], Shiki Takamura[1)]
[1)]RIKEN Center for Integrative Medical Sciences, [2)]The University of Osaka

WS15-06-O/P **Interplay of IL-10 producing CD4+ T cells and macrophages regulates tissue regeneration following influenza virus infection**

◯ Hui Li, Hiroyuki Kondo, Koji Yasutomo
Tokushima University

WS15-07-O/P **Mechanisms Mediating Synovial Resident Memory T Cell Persistence in Rheumatoid Arthritis**

◯ Yusuke Miyashita[1, 2)], Yang Yang[1)], Madison Mangin[1)], Maryrose Hahn[1)], Kimitoshi Nakamura[2)], Margaret Chang[1)]
[1)]Boston Children's Hospital, [2)]Kumamoto University Hospital

WS15-08-O/P **Roles of bone marrow memory CD4 T cells in vivo**

◯ Sano Nagano, Akiho Idehara, Koji Tokoyoda
Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan

WS15-09-O/P

Genetic Deletion of CCR4 Accelerates Early-Stage Atherosclerosis in Mice

◯ Aga Krisnanda[1)], Kazuhiko Matsuo[3)], Takashi Nakayama[3)], Naoto Sasaki[1, 2)]

[1)]Laboratory of Medical Pharmaceutics, Kobe Pharmaceutical University, [2)]Division of Cardiovascular Medicine, Department of Internal Medicine, Kobe University Graduate School of Medicine, [3)]Division of Chemotherapy, Faculty of Pharmacy, Kindai University

WS15-10-O/P

Human precursor T follicular regulatory cells are primed for differentiation into mature Tfr and disrupted during severe infections.

◯ James Wing[1, 3, 6)], Janyerkye Tulyeu[1)], Jonas Søndergaard[1)], David Priest[1, 6)], Takeshi Ebihara[2)], Hisatake Matsumoto[2)], Mara Llamas-Covarrubias[6)], Akimichi Morita[5)], Sayuri Yamazaki[4)], Shimon Sakaguchi[7)]

[1)]Human Single Cell Immunology Team, CiDER, The University of Osaka, [2)]Department of Traumatology and Acute Critical Medicine, Graduate School of Medicine, The University of Osaka,[3)]Center for Advanced Modalities and DDS (CAMaD), The University of Osaka, [4)]Department of Immunology, Nagoya City University Graduate School of Medical Sciences, [5)]Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, [6)]Laboratory of Human Single Cell Immunology, IFReC, The University of Osaka, [7)]Laboratory of Experimental Immunology, IFReC, The University of Osaka

WS15-11-O/P

Lymphopenia-induced CD4+ T-cell proliferation exacerbates skin inflammation triggered by commensal skin fungi

◯ Mami I. Mamiya[1, 2)], Yuji Nishimura[2)], Gyohei Egawa[1)], Akihiko Kitoh[1)], Hiroshi Kawamoto[2)], Kenji Kabashima[1)]

[1)]Department of Dermatology, Kyoto University Graduate School of Medicine, [2)]Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University

WS15-12-O/P

Increased γδT cells in the brain produced IL-17 and exacerbate the pathogenesis of sepsis-induced anxiety in mice

◯ Masafumi Saito[1)], Naoki Moriyama[2)], Yuko Ono[3)], Joji Kotani[3)], Manabu Kinoshita[1)]

[1)]Department of Immunology and Microbiology, National Defense Medical College, [2)]Hyogo Prefectural Awaji Medical Center, [3)]Division of Disaster and Emergency Medicine, Department of Surgery Related, Kobe University Graduate School of Medicine

WS15-13-O/P

Circulating, innate Th1-like memory-phenotype CD4+ T cells rapidly accumulate in ischemic organs to exacerbate tissue injury via neutrophil orchestration

◯ Kosuke Sato[1, 2)], Akihisa Kawajiri[1)], Jing Li[1)], Ziying Yang[1)], Ryoji Mitsuwaka[1)], Shunichi Tayama[1)], Kenshiro Matsuda[3)], Chigusa Nakahashi-Oda[3)], Akira Shibuya[3)], Motoshi Wada[2)], Naoto Ishii[1)], Takeshi Kawabe[1, 4)]

[1)]Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, [2)]Department of Pediatric Surgery, Tohoku University Graduate School of Medicine, [3)]Department of Immunology, Institute of Medicine and R&D Center for the Innovative Drug Discovery, University of Tsukuba, [4)]Division for the Establishment of Frontier Sciences, Tohoku University Organization for Advanced Studies

WS15-14-O/P

Characterization of CD20-expressing CD4+ T cells in autoimmune neuroinflammation

◯ Masanobu Tanemoto[1, 2)], Ippei Ikegami[1)], Taiki Sugaya[1, 3)], Ken-Ichi Takano[3)], Shin Hisahara[2)], Shingo Ichimiya[1)]

[1)]Department of Human Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, [2)]Department of Neurology, Sapporo Medical University School of Medicine, [3)]Department of Otolaryngology-Head and Neck Surgery, Sapporo Medical University School of Medicine

WS15-15-O/P

Spermidine Impairs Mitochondrial Function in Senescent-Like CD8⁺ T Cells via FAO-Driven ROS

◯ Jun Wang, Yasuharu Haku, Aprilia Maharani, Tomonori Yaguchi, Kenji Chamoto

Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS15-16-O/P

Novel Integrated Workflow for Simultaneous Analysis of Antigen-Specific T-Cells and B-Cells

◯ Nayeema Nushrat[1, 2)], David Priest[1)], Takashi Toya[3)], Ayumi Taguchi[4, 5)], James Badger Wing[1, 2, 4)]

[1)]Human Single Cell Immunology team, Center for Infectious Diseases Education and Research (CiDER), The University of Osaka, [2)]Center for Advanced Modalities and DDS (CAMaD), The University of Osaka, [3)]Hematology Division, Tokyo Metropolitan Komagome Hospital, [4)]Laboratory of Human Single Cell Immunology, WPI IFReC, The University of Osaka, [5)]Department of Obstetrics and Gynecology, Graduate School of Medicine, The University of Tokyo

WS15-17-O/P

Clonally Expanded CD8+ T Cells Actively Shape Alzheimer's Disease Pathology Through Dynamic Functional Transitions

◯ Masaki Ohyagi[1, 2)], Minako Ito[3)], Mana Iizuka-Koga[1)], Setsuko Mise-Omata[1)], Akihiko Yoshimura[1)]

[1)]Tokyo University of Science, [2)]Institute of Science Tokyo, [3)]Kyushu University

WS15-18-O/P

Lipolysis-microlipophagy cascade regulated by adipose triglyceride lipase drives pathogenic adaptive type 2 immunity

◯ Atsushi Sasaki[1, 2, 3], Hiroyuki Yagyu[1, 4], Masahiro Kiuchi[1], Chiaki Iwamura[1], Takahiro Arano[1], Kanae Ohishi[1], Shigenori Baba[1], Kiyoshi Hirahara[1, 3]

[1]Department of Immunology, Graduate School of Medicine, Chiba University, [2]Department of Respirology, Graduate School of Medicine, Chiba University, [3]Chiba University, Synergy Institute for Futuristic Mucosal Vaccine Research and Development, [4]Department of Pulmonology, Graduate School of Medicine, Yokohama City University

WS15-19-O/P

Flexible and Comprehensive Phenotyping of Tumor and Peripheral Blood Mononuclear Cells in Endometrial Carcinoma

◯ Naoto Fujioka[1], Anita Kant[2], Deeqa Mahamed[2], Geneve Awong[2], Gary Impey[2]

[1]Standard BioTools K.K., [2]Standard BioTools Inc.

WS15-20-O/P

Analysis of T Cells in Amyotrophic Lateral Sclerosis

◯ Yoshihiro Harada, Mio Kawazoe, Ako Matsui, Minako Ito

Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University

WS15-21-O/P

Sleep Deprivation Alters Brain Immune Landscape with Adaptive Immune Cell Infiltration and Neuronal Gene Signatures

◯ Haruka Takeda

University of Tsukuba

WS15-22-O/P

Identification and characterization of neonatal liver-resident T cells

◯ Yuta Iijima[1, 2], Ichita Hasegawa[1], Shunka Kano[1], Yukihiro Endo[1], Ryo Nasu[1], Hiromichi Hamada[2], Motoko Kimura[1]

[1]Department of Experimental Immunology, Graduate School of Medicine, Chiba University, [2]Department of Pediatrics, Graduate School of Medicine, Chiba University

WS16 Tumor Immunity - Antigens and receptors

15:40 ~ 16:55 Room B

Chairpersons: Takayuki Kanaseki, Kanako Shimizu

"Tumor immunity" has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year's "Tumor immunity" workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining "Antigens and receptors", highlighting their roles and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

WS16-02-O/P

Pushing the limits of neoantigen discovery in low tumour mutational burden cancers by synergising with targeted protein degradation and noncanonical translation

◯ Wei Wu[1, 2], Ilisia Ow[1, 2], Ruojing Lu[1, 2], Justin Jun Ting Low[1], Wei Jin Amanda Crystal Lee[1]

[1]Singapore Immunology Network (SIgN), A*STAR Singapore, [2]National University of Singapore

WS16-05-O/P

Crucial Role of IFN-γ-Induced MHC Class II on Tumor Cells in Antitumor Immunity Elicited by an mRNA Cancer Vaccine

◯ Mahiro Shibata[1, 2], Hui Jin[1], Hisashi Arase[1, 2]

[1]Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, [2]Laboratory of Immunochemistry, Immunology Frontier Research Center, The University of Osaka

WS16-06-O/P

HANG-Vax potently maximize the efficacy of TCR-T therapy, leading to the cure of immunotherapy-resistant solid tumors and long-term prevention of recurrence

◯ Fumiyasu Momose[1], Makiko Yamane[1], Junko Nakamura[1], Linan Wang[1], Keiki Nagaharu[2], Kohei Yabuuchi[3], Shogo Aso[3], Takero Kurosawa[3, 4], Toru Katsumata[3], Tsuyoshi Shimoboji[3], Takashi Nakai[3, 4], Yoshihiro Miyahara[1]

[1]Department of Personalized Cancer Immunotherapy, Mie University Graduate School of Medicine, [2]Lund Stem Cell Center, Lund University, [3]New Product Development Office, Healthcare Materials Div., Asahi Kasei Corporation, [4]DiveRadGel Co., Ltd.

WS16-07-O/P

Peptide immunotherapy targeting FAP augments anti-tumor responses

◯ Keiko Udaka[1)], Toshihiro Komatsu[1)], Kaoru Furihata[2)], Yuki Tanaka[4)], Kohsuke Onoue[4)], Kazuhide Onoguchi[4)], Yoshiko Yamashita[4)], Kanae Kubota[3)], Naoki Sakaguchi[5)]

[1)]Department of Immunology, School of Medicine, Kochi University, [2)]Department of Pathology, School of Medicine, Kochi University, [3)]Advanced Medical Science course, School of Medicine, Kochi University, [4)]AI DevelopmenAI development Division, Global Innovation Unit, NEC Corporation, [5)]Pharmaceutical Solutions Division, R&D, TERUMO Corporation (previous affiliation)

WS16-08-O/P

HBI-8000, a histone deacetylase inhibitor, reprograms CD8⁺ T cell differentiation and enhances PD-1 blockade efficacy

◯ Mohamed A. Soltan[1)], Tomonori Yaguchi[1, 2)], Tasuku Honjo[1)], Kenji Chamoto[1, 2)]

[1)]Department of Immunology and Genomic Medicine, CCII, Kyoto University Graduate School of Medicine, [2)]Department of Immuno-Oncology PDT, Kyoto University Graduate School of Medicine

WS16-10-O/P

Synergic induction of MHC-I expression by cooperation of IRF1 and NLRC5

◯ Tsutomu Tanaka[1, 2)], Torsten Meissner[3, 4)], Saptha Vijayan[5)], Kyoung-Hee Lee[3, 4)], Yuen-Joyce Liu[3)], Isaac Downs[5)], Jason Yeung[5)], Koichi Kobayashi[1, 2, 5)]

[1)]Department of Immunology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, [2)]The Institute for Vaccine Research and Development (IVReD), Hokkaido University, [3)]Department of Cancer Immunology & AIDS, Dana-Farber Cancer Institute, [4)]Department of Microbiology and Immunobiology, Division of Immunology, Harvard Medical School, [5)]Department of Microbial Pathogenesis and Immunology, Texas A&M Health Science Center

WS16-11-O/P

IFN-γ stimulation upregulates HLA-F cell surface expression that regulates tumor progression in colon cancers

◯ Noriko Ouji-Sageshima, Atsushi Hara, Kaito Yasuike, Hinata Wade, Ryutaro Furukawa, Masahiro Kitabatake, Toshihiro Ito

Department of Immunology, Nara Medical University

WS17 Allergy (I): Orchestrating the Cellular Symphony

15:40 ~ 16:55 Room C

Chairpersons: Jiro Kitaura, Haruka Miki

This session aims to unravel how diverse allergic responsible cells coordinate to shape allergic inflammation. Allergy is not driven by a single cell type, but by the dynamic interplay among mast cells, basophils, eosinophils, ILC2, T and B lymphocytes, epithelial cells, and stromal elements. Recent advances in single-cell technologies, imaging, and systems biology have shed light on the complex “cellular symphony” that governs the onset, persistence, and resolution of allergic responses. By highlighting novel insights into intercellular communication, regulation of effector functions, and emerging therapeutic targets, this workshop seeks to provide participants with an integrated view of cellular networks in allergy.

WS17-01-O/P

Enhanced STAT6 signaling promotes age-dependent spontaneous mixed granulocytic lung inflammation

◯ Naoko Nagano[1)], Masato Tamari[1)], Hiromichi Yamamoto[1)], Hisataka Nakazaki[1)], Satoshi Fujita[1)], Yuka Hayashi[1)], Kenichiro Motomura[1, 2, 3)], Shuji Takada[4)], Susumu Nakae[5)], Hirohisa Saito[1)], Kenji Matsumoto[1)], Hideaki Morita[1, 6)]

[1)]Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development, [2)]Division of Immuno-Biomedical Research, Integrated Center for Women’s Health, National Research Institute for Child Health and Development, [3)]Division of Molecular Pharmacology, Department of Pharmacology, National Research Institute for Child Health and Development, [4)]Department of Systems Developmental Biology, National Research Institute for Child Health and Development, [5)]Graduate School of Integrated Science for Life, Hiroshima University, [6)]Allergy Center, National Center for Child Health and Development

WS17-02-O/P

FoxO1 regulates peripheral basophil abundance and allergic inflammation

◯ Kensuke Miyake, Junya Ito, Xintong Chen, Hajime Karasuyama

Institute of Integrated Research, Institute of Science Tokyo

WS17-03-O/P

Differences in Steroid Responsiveness across Mouse Strains in Type 2 Allergic Airway Inflammation

◯ Hyunsoo Kim, Yong Woo Jung

College of Pharmacy, Korea University

WS17-04-O/P

IL-33–mediated innate responses trigger sneezing independent of IgE in allergic rhinitis

◯ Huiyang Li[1)], Yasutaka Motomura[1, 4)], Kazuyo Moro[1, 2, 3)]

[1)]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2)] Laboratory for Innate Immune Systems, RIKEN-IMS, [3)]Laboratory for Innate Immune Systems, IFReC, The University of Osaka, [4)]Division of Immunology and Allergy, Research Institute for Biomedical Science, Tokyo University of Science

WS17-05-O/P

Involvement of the Unfolded Protein Response in the Mast Cell-dependent allergic responses in vivo and in vitro

◯ Hiroto Kouda, Kazuki Nagata, Chiharu Nishiyama

Department of Biological Science and Technology, Tokyo University of Science

WS17-06-O/P

CCR4-NOT complex–mediated mRNA decay preserves ILC2 identity and function during allergic inflammation

◯ Megumi Tatematsu[1, 2)], Akene Fuchimukai[1, 2)], Shunsuke Takasuga[1, 2)], Takashi Ebihara[1, 2, 3)]

[1)]Department of Medical Biology, Akita University Graduate School of Medicine, [2)]Key Research Laboratory at Akita University, [3)]Comprehensive Center for Infectious Disease Control, Akita University

WS17-07-O/P

Spontaneously produced IgE attenuates passive cutaneous anaphylaxis

◯ Akihiko Kitoh[1)], Rintaro Shibuya[2)], Sho Hanakawa[3)], Kenji Kabashima[1, 3)]

[1)]Department of Dermatology, Kyoto University Graduate School of Medicine, [2)]Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, [3)]Skin Research Labs, Agency for Science, Technology and Research (A*STAR)

WS17-08-O/P

Mast cell–monocyte interaction regulates macrophage differentiation and allergic inflammation

◯ Yuka Nagata, Shiori Murakami, Atsushi Furukawa, Ryo Suzuki

Division of Pharmaceutical Sciences Institute of Medical, Pharmaceutical, and Health Science Kanazawa University

WS18 Organ-specific Immune Diseases

15:40 ~ 16:55 Room D

Chairpersons: Sachiko Miyake, Tomohisa Sujino

This session addresses organ-specific immune diseases encompassing various autoimmune and inflammatory conditions that affect the nervous system, endocrine system, skin, gastrointestinal tract, liver, and other organs. Studies presented in this session provide insights into the molecular mechanisms underlying the pathogenesis of these diseases, focusing on the roles of immune cells/factors and the tissue microenvironment in shaping organ-specific immunopathological processes.

WS18-04-O/P

Helios-Dependent Chromatin Remodeling Drives IFN-α–Responsive Plasma Cell Differentiation in NMOSD Naïve B Cells

◯ Shuhei Sano, Daisuke Noto, Yasunobu Hoshino, Yuji Tomizawa, Kazumasa Yokoyama, Nobutaka Hattori , Sachiko Miyake

Juntendo University

WS18-06-O/P

CXCR5 regulates disease susceptibility and activity in primary biliary cholangitis (PBC)

◯ Yuki Hitomi[1, 2)], Yoshihiro Aiba[3)], Kazuyoshi Ishigaki[4, 5)], Minoru Nakamura[3, 6, 7)]

[1)]Institute of Biomedical Sciences, Fukushima Medical University, [2)]National Institute of Global Health and Medicine, Japan Institute for Health Security, [3)]Clinical Research Center, NHO Nagasaki Medical Center, [4)]RIKEN Center for Integrative Medical Sciences, [5)]Keio University School of Medicine, [6)]Medical Institute of Bioregulation, Kyushu University, [7)]Nagasaki University Graduate School of Biomedical Sciences

WS18-08-O/P

Mechanisms of Th1-skewed intestinal inflammation under adaptive immunodeficiency in the mice carrying W447C mutation of Lig4 encoding DNA ligase IV

◯ Hideki Kosako[1)], Yusuke Yamashita[1)], Misato Tane[1)], Tadashi Okamura[1)], Takashi Kato[2, 3)], Izumi Sasaki[2)], Sadahiro Iwabuchi[4)], Hiroaki Hemmi[2, 5)], Shinichi Hashimoto[4)], Takashi Sonoki[1)], Shinobu Tamura[1, 6)], Tsuneyasu Kaisho[2, 7)]

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WS18-09-O/P

A commensal-derived lipid mediator promotes tuft cell driven mucosal healing in colitis

◯ Shunya Hatai[1, 2)], Yasutaka Motomura[1, 3)], Koji Hosomi[4)], Sakaguchi Taiki[5)], Ryu Okumura[5)], Daisuke Motooka[7)], Eiichi Morii[8)], Shota Nakamura[7)], Takayuki Ogino[6)], Kiyoshi Takeda[5)], Jun Kunisawa[4)], Kazuyo Moro[1, 2, 9)]

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WS18-14-O/P

CD300b is a pathogenic receptor triggering autoinflammatory dermatitis and bone destruction by recognizing self-phospholipids

◯ Asako Kubota[1, 2)], Xuhao Huang[2)], Takae Yabuki[3)], Kumi Izawa[4)], Masatomo Takahashi[5)], Yoshihiro Izumi[5)], Masamichi Nagae[1, 2)], Kazuo Okamoto[6)], Jiro Kitaura[4, 7)], Sho Yamasaki[1, 2, 3, 8)]

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WS18-16-O/P

Tertiary Lymphoid Tissue Development and Stage Progression in Chronic Kidney Disease

◯ Jinghao Chen[1)], Takahisa Yoshikawa[3)], Naoya Toriu[1, 3)], Steffen Plunder[1)], Motoko Yanagita[1, 3)], Sungrim Seirin-Lee[1, 2)]

[1)]Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University Institute for Advanced Study, Kyoto University, [2)]Department of Mathematical Medicine, Graduated School of Medicine, Kyoto University, [3)]Department of Nephrology, Graduate School of Medicine, Kyoto University

WS18-17-O/P

Proteasome dysfunction in adipocytes causes lipodystrophy with autoinflammation

◯ Thanh Nam Nguyen, Junko Morimoto, Koji Yasutomo

Tokushima University

WS19 Innate immune response by phagocytes

15:40 ~ 16:55 Room E

Chairpersons: Kenichi Asano, Miyako Tanaka

Phagocytic cells such as macrophages, neutrophils, and dendritic cells are essential for eliminating bacteria and other pathogens through phagocytosis, thereby shaping early inflammatory responses. Beyond this, they perform diverse functions: neutrophils generate neutrophil extracellular traps (NETs) as a unique antimicrobial defense, while macrophages and dendritic cells secrete cytokines that drive adaptive immunity. Their activation is controlled by multiple receptors, most notably Toll-like receptors (TLRs), which detect microbial and danger signals. This session will focus on molecular mechanisms by which phagocytes regulate innate immunity. By exploring their signaling and effector functions, we aim to reveal how phagocytes orchestrate host defense and bridge innate and adaptive responses.

WS19-01-O/P

Distinct properties of lymphoid-derived conventional dendritic cells

◯ Masashi Kanayama[1)], Nobuyuki Onai[2)], Toshiaki Ohteki[1)]

[1)]Department of Biodefense Research, Medical Research Laboratory, Institute of Science Tokyo, [2)]Department of Immunology, Kanazawa Medical University

WS19-03-O/P

Siglec-14 recognizes carbon nanomaterials and triggers inflammatory responses

◯ Shin-Ichiro Yamaguchi, Masafumi Nakayama

Ritsumeikan University

WS19-07-O/P

Identification and functional analysis of inflammation-regulated circular RNAs controlling cytokine expression in macrophages

◯ Shuya Hiroki, Daisuke Ori, Norisuke Kano, Taro Kawai

Laboratory of Molecular Immunobiology, Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST), Nara, Japan

WS19-09-O/P

Transcriptomic analysis of osteal macrophages unveils molecular signatures of inflammation in experimental colitis-induced osteoporosis

◯ Alaa Terukawa, Ryota Suzuki, Hend Terukawa, Norimasa Iwasaki
Hokkaido University

WS19-12-O/P

Extracellular lipid metabolism driven by sPLA2-III controls the fate of macrophages in pulmonary fibrosis

◯ Sho Egawa[1)], Yoshitaka Taketomi[1)], Makoto Murakami[1, 2)]
[1)]The University of Tokyo, [2)]AMED-CREST

WS19-15-O/P

Neutrophils turn the key to sex difference of lifespans when hyper-vitamin D in circulation

◯ Mayumi Mori, Chiaki Abe, Yuki Kanesaka, Yo-ichi Nabeshima
Kyoto University

WS19-19-O/P

Lysosomal DNA stress triggers TLR9-mediated emergency myelopoiesis and Liver fibrosis

◯ Ryota Sato[1)], Takuma Shibata[2)], Kiyoshi Yamaguchi[3)], Yoichi Furukawa[3)], Kenta Nakano[4)], Tadashi Okamura[4)], Ryutaro Fukui[1)], Yuji Motoi[1)], Kensuke Miyake[1)]
[1)]Miyake Lab, Synergy Institue for Futuristic Mucosal Vaccine Research and Development, Chiba University, [2)]Division of Aging and Regeneration, Department of Cancer Biology, The Institute of Medical Science, The University of Tokyo, [3)]Division of Clinical Genome Research, Advanced Clinical Research Center, The Institute of Medical Science, The University of Tokyo, [4)]Department of Laboratory Animal Medicine, Japan Institute for Health Security

WS19-20-O/P

TLR7 Stress Response Disrupts Immune Privilege and Triggers Submandibular Sialadenitis

◯ Takuma Shibata[1)], Yuji Motoi[2)], Ryota Sato[2)], Emi Nishimura[1)], Kensuke Miyake[2)]
[1)]Division of Aging and Regeneration, The Institute of Medical Science, The University of Tokyo, [2)]Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University

WS20 Viral infections and Immunity

15:40 ~ 16:55 Room F

Chairpersons: Hiroyuki Oshiumi, Saya Moriyama

The pandemics of this century have underscored the critical importance of immunology in viral infections. This session will focus on antiviral immune responses, including innate and adaptive immunity from the perspectives of cellular and humoral responses. We will also highlight immune strategies that counter viral mutations and immune evasion. In addition, recent advances in vaccine development for the prevention and treatment of infectious diseases will also be discussed, together with studies on vaccine-associated adverse events. These studies are expected to provide an essential foundation to cope with future pandemics and to address current challenges in infectious diseases.

WS20-07-O/P

Recognition and inhibition of CTL escape mutant HIV-1 by KIR2DL2+ NK cells

◯ Nozomi Kuse[1, 2)], Kimiko Kuroki[3)], Nanami Tomioka[3)], Yu Zhang[2)], Shunsuke Kita[3)], Takayuki Chikata[2)], Katsumi Maenaka[3, 4, 5, 6, 7)], Masafumi Takiguchi[2)]
[1)]Department of Latent Infection, National Institute of Infectious Diseases, Japan Institute for Health Security, [2)]Division of International Collaboration Research and Tokyo Joint Laboratory, Joint Research Center for Human Retrovirus Infection, Kumamoto University, [3)]Laboratory of Biomolecular Science, Faculty of Pharmaceutical Sciences, Hokkaido University, [4)]Center for Research and Education on Drug Discovery, Faculty of Pharmaceutical Sciences, Hokkaido University, [5)]Institute for Vaccine Research and Development, Hokkaido University, [6)]Global Station for Biosurfaces and Drug Discovery, Hokkaido University, [7)]Faculty of Pharmaceutical Sciences, Kyushu University

WS20-10-O/P

Molecular basis of potent antiviral HLA-C-restricted CD8+ T cell response to an immunodominant SARS-CoV-2 nucleocapsid epitope

◯ Chihiro Motozono[1)], Mako Toyoda[1)], Hiroshi Hamana[2)], Hiroyuki Kishi[2)], Takamasa Ueno[1)]
[1)]Division of Infection and immunity, Joint Research Center for Human Retrovirus infection, Kumamoto University, [2)]Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama

WS20-11-O/P

Altered SARS-CoV-2-specific CD8+ T cell response profiles in people with HIV after natural infection

◯ Ai Kawana-Tachikawa[1, 2, 3], Kaori Nakayama-Hosoya[1], Alitzel Anzurez[1], Michiko Koga[4, 5], Hiroshi Yotsuyanagi[6, 7], Yukihiro Yoshimura[8], Natsuo Tachikawa[9], Hiroyuki Yamamoto[1, 2]

[1]AIDS Research Center, National Institute of Infectious Diseases, Japan Institute for Health Security, [2]Joint Research Center for Human Retrovirus Infection, Kumamoto University, [3]Division of AIDS Vaccine Development, IMSUT Hospital, The Institute of Medical Science, The University of Tokyo , [4]Department of Infectious Diseases, The University of Tokyo Pandemic Preparedness Infection and Advanced Research Center (UTOPIA), The University of Tokyo, [5]Department of Infectious Diseases and Applied Immunology, IMSUT Hospital, The Institute of Medical Science, the University of Tokyo, [6]Japan Institute for Health Security, [7]The Institute of Medical Science, The University of Tokyo, [8]Yokohama Municipal Citizen's Hospital, [9]Nayoro Higashi Hospital

WS20-13-O/P

Anti-idiotypic antibodies targeting SARS-CoV-2 neutralizing antibodies encoded with IGHV3-53 germlines

◯ Yimei Wang[1], Saya Moriyama[1], Yu Adachi[1], Akira Ainai[2], Kenta Nakano[3], Tadashi Okamura[3], Tadaki Suzuki[2], Hiroshi Itou[4], Yoshimasa Takahashi[1]

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WS20-22-O/P

17,18-epoxyeicosatetraenoic acid ameliorates mRNA-LNP-induced local inflammation by inhibiting neutrophil infiltration

◯ Keigo Iemitsu[1, 2], Ken Yoshii[2], Takahiro Nagatake[2, 3], Jun Kunisawa[1, 2, 4, 5, 6, 7, 8, 9]

[1]Graduate School of Medicine, The University of Osaka, Osaka, Japan, [2]Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, Microbial Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health, and Nutrition (NIBN), Osaka, Japan, [3]Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, Kawasaki, Kanagawa, Japan, [4]Graduate School of Pharmaceutical Sciences, The University of Osaka, Osaka, Japan, [5]Graduate School of Science, The University of Osaka, Osaka, Japan, [6]International Research and Development Center for Mucosal Vaccines, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, [7]Graduate School of Medicine, Kobe University, Kobe, Japan, [8]Research Organization for Nano and Life Innovation, Waseda University, Tokyo, Japan, [9]Graduate School of Dentistry, The University of Osaka, Osaka, Japan

WS20-24-O/P

Therapeutic efficacy of an adjuvant-containing live-attenuated AIDS vaccine in pathogenic SHIV-infected cynomolgus macaques

◯ Emiko Urano[1], Tomotaka Okamura[1], Yasuhiro Yasutomi[1, 2, 3, 4, 5]

[1]National Institutes of Biomedical Innovation, Health and Nutrition, [2]Institute for Vaccine Research and Development, Hokkaido University, [3]School of Integrative and Global Majors, University of Tsukuba, [4]Mie University Graduate School of Medicine, [5]Graduate School of Pharmaceutical Science, The University of Osaka

WS20-29-O/P

Characterization of Virus-Host Immune Response and Screening of Viral Infection Using Animal RNA-Seq Data

◯ Luca Nishimura[1], Hiroaki Unno[1], Junna Kawasaki[2, 3], Jumpei Ito[1], Kei Sato[1]

[1]Division of Systems Virology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, [2]Department of Infectious Disease Pathobiology, Graduate School of Medicine, Chiba University, [3]Department of Infectious Disease Pathology, National Institute of Infectious Diseases, Japan Institute for Health Securit

WS21 Gastrointestinal Barrier and Immune Regulation

15:40 ~ 16:55 Room G

Chairpersons: Koji Atarashi, Hisako Kayama

The gastrointestinal tract has a complex barrier system in which epithelial cells and innate/adaptive immune cells collaborate to maintain tissue homeostasis and control both pathogenic and commensal microbes. This session will explore how the barrier integrates environmental and microbial signals with host immunity. Presentations will cover topics, such as epithelial metabolism, novel regulators of glycosylation, and immune cell–microbe interactions in shaping barrier function. Collectively, these studies highlight the complex barrier system as a dynamic hub of immune regulation in the gut.

WS21-03-O/P

Oral TRPV1 stimulation lowers the activation threshold for antigen-specific T cell responses via the CGRP–CD301b^{+} dendritic cell axis

◯ Mayuko Hashimoto, Yutaka Kusumoto, Michio Tomura

Osaka-Ohtani University

WS21-04-O/P

Fam3b regulates gut homeostasis by promoting epithelial fucosylation via Fut2 localization in the Golgi apparatus

◯ Yuki Ito[1, 2], Ryu Okumura[1, 3], Kiyoshi Takeda[1, 3]
[1]The University of Osaka, [2]Kobe University, [3]WPI Immunology Frontier Research Center

WS21-05-O/P

Role of B4galnt2-mediated glycosylation in the mucus barrier and gut homeostasis

◯ Airi Ishibashi, Ryu Okumura, Kiyoshi Takeda
The University of Osaka

WS21-09-O/P

Cross-species reactive IgA's physicochemical pattern recognition selectively inhibits the folate cycle of pathogenic bacteria

◯ Genta Furuya, Keishu Takahashi, Ryutaro Tamano, Kengo Sasaki, Naoki Morita, Peng Gao, Reiko Shinkura
Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo

WS21-11-O/P

Dietary antigens contribute to intestinal homeostasis by enhancing ILC3 function

◯ Ayana Mori[1, 2], Mitsuki Ito[2, 3], Tomoko Kageyama[2], Naoko Tachibana[4], Tamotsu Kato[4], Ayumi Ito[4], Shiho Nagata[1, 4], Hiroshi Ohno[4, 5], Naoko Satoh-Takayama[1, 2]
[1]Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan, [2]Precision Immune Regulation RIKEN ECL Research Unit, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, [3]Graduate School of Pharmaceutical Sciences, Tokyo University of Science, Katsushika, Tokyo, Japan, [4]Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, [5]Laboratory for Immune Regulation, Graduate School of Medicine, Chiba University, Chiba, Japan

WS21-12-O/P

Polyreactive IgA induced by Limosilactobacillus reuteri and Muribaculum intestinale enhances gut mucosal barrier

◯ Hikari Maruta[1], Kisara Hattori-Muroi[1], Daisuke Takahashi[1], Reiko Shinkura[2], Tsukasa Matsuda[3], Koji Hase[1, 3, 4, 5]
[1]Division of Biochemistry, Faculty of Pharmacy, Keio University, [2]Institute for Quantitative Biosciences, Laboratory of Immunology and Infection Control, The University of Tokyo, [3]Institute of Fermentation Sciences (IFeS), Faculty of Food and Agricultural Sciences, Fukushima University, [4]Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q), Keio University, [5]International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo (IMSUT)

WS21-15-O/P

Spatial and functional characterization of ulcer-associated IL-33+ fibroblasts in ulcerative colitis

◯ Yuki Fukushima[1], Satoshi Koga[1, 3], Kazuyo Moro[1, 2, 3]
[1]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2]Laboratory for Innate Immune Systems, RIKEN-IMS, [3]Laboratory for Innate Immune Systems, IFReC, The University of Osaka

WS21-20-O/P

ILC3s-neuro axis in the gut regulates energy metabolism during fasting

◯ Takuma Misawa[1, 2], Kazuyo Moro[1, 3, 4, 5], Shigeo Koyasu[2]
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December 12

WS22 T cell differentiation and function

12:50 ~ 14:05 Room A

Chairpersons: Kazuko Shibuya, Taishin Akiyama

This workshop explores how T cells develop, function, and can beharnessed for therapy. We trace their journey from early maturation andpost-transcriptional safeguards that prevent autoimmunity to howmetabolism and regulatory cues shape helper T cell activity and antibody responses. We also highlight mechanisms that sustain immune memory and promote tolerance. Together, these insights provide a roadmap for precisely manipulating T cell function and guiding the design of next-generation immune therapies.

WS22-01-O/P

Bcl11-Cxxc1 axis controls stage-specific chromatin accessibility during lymphopoiesis

◯ Kazuki Okuyama, Ichiro Taniuchi
Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences

WS22-02-O/P

DEAD-box RNA helicase 6 regulates T cell activation and drives autoimmune pathogenesis

◯ Chihiro Goya, Asako Kajiya, Ting Cai, Masanori Yoshinaga, Osamu Takeuchi
Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS22-03-O/P

In vivo CRISPR screening reveals metabolic control of TFH cells and humoral immunity by phosphatidylethanolamine

◯ Guotong Fu
Shanghai Immune Therapy Institute

WS22-04-O/P

Bob1+ T follicular helper cells support intestinal mucosal immunity

◯ Shotaro Shirato[1, 2], Ippei Ikegami[1], Takashi Sasaki[3], Umi Komabayashi[1], Ayumi Tatekoshi[1, 2], Masayoshi Kobune[2], Shingo Ichimiya[1]
[1]Department of Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, [2]Department of Hematology, Sapporo Medical University School of Medicine, [3]Animal Research Center, Sapporo Medical University School of Medicine

WS22-05-O/P

MyD88 signaling suppresses memory T helper cell formation

◯ Kokoro Ohki[1], Shintaro Hojyo[2], Koji Tokoyoda[1]
[1]Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, [2]Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

WS22-06-O/P

PD-1 suppresses germinal center reaction and affinity maturation of antibodies

◯ Yosuke Tokumaru[1, 2], Yuka Nakajima[1, 3], Kensuke Suzuki[1, 2], Tasuku Honjo[3], Akio Ohta[1]
[1]Department of Immunology, Foundation for Biomedical Research and Innovation at Kobe (FBRI), [2]Drug Discovery Department, R&D Division, Meiji Seika Pharma Co, Ltd., [3]Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS22-07-O/P

Antigen-Presenting Extracellular Vesicles Enable Subset-Specific Modulation of CD4⁺ T Cells

◯ Uryo Onishi[1, 2], Ryouken Kimura[2], Shota Imai[2], Xiabing Lyu[2, 3], Tomoyoshi Yamano[2, 3], Rikinari Hanayama[2, 3]
[1]School of Medical and Pharmaceutical Sciences, Kanazawa University, [2]Department of Immunology, Graduate School of Medicine, Kanazawa University, [3]WPI Nano Life Science Institute (NanoLSI), Kanazawa University

WS23 Tumor Immunity - Therapies

12:50 ~ 14:05 Room B

Chairpersons: Ai Kotani, Seo Wooseok

"Tumor immunity" has emerged as one of the most prominent areas within the field of immunology in recent years. This heightened attention is largely attributable to the successful clinical introduction of immune checkpoint inhibitors, which has facilitated the accumulation of not only basic research findings but also substantial clinical data. At the same time, steady progress has been made in other established areas of tumor immunity beyond immune checkpoint research. This year's "Tumor immunity" workshop is organized into four subcategories, encompassing a broad range of topics. In this session, we will focus primarily on studies examining various "Therapies" of tumors, highlighting their efficacy and mechanisms in tumor immunity. We look forward to active and stimulating discussions.

WS23-03-O/P

Harnessing an epigenetic rewiring technique to tailor T cell differentiation for controlling colitis and tumors

◯ Lorene Rousseau[1, 2], Stefania Vilbois[1], Stanislav Dergun[1], Ping-Chih Ho[1]
[1]University of Lausanne UNIL, [2]Centre Hospitalier Universitaire Vaudois CHUV

WS23-04-O/P

Engineering a tunable split CAR system with low immunogenicity for next-generation cancer immunotherapy

◯ Tsukasa Shigehiro, Ryuki Ueda, Hiroyuki Kadota, Tomokatsu Ikawa
Tokyo University of Science, Research Institute for Biomedical Sciences

WS23-07-O/P

Reprogramming antitumor T cells to achieve a long-lived memory phenotype

◯ Mirei Kataoka, Yusuke Ito, Yuki Kagoya
Keio University

WS23-08-O/P

Exosomes, regulated by SPRED2, reshape tumor microenvironment via activating IL6/ STAT3 signaling

◯ Tong Gao, Miao Tian, Tianyi Wang, Masahiro Fujisawa, Toshiaki Ohara, Teizo Yoshimura, Akihiro Matsukawa
Okayama University

WS23-11-O/P

PD-L1 blockade expanded a proliferative subset within exhausted CD8+ tumor-infiltrating lymphocytes

◯ Naoya Baba[1)], Tsunoda Mikiya[1)], Munetomo Takahashi[2)], Masaki Kurosu[1)], Haru Ogiwara[1)], Kouji Matsushima[1)], Satoshi Ueha[1)]
[1)]Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, [2)]The University of Tokyo

WS23-16-O/P

Prevention of NK cell-mediated rejection by using mAbs for inhibitory receptors of NK cells

◯ Masao Itahara[1)], Kyoko Masuda[1)], Koji Terada[2)], Yuma Kato[1)], Yasutoshi Agata[2)], Hisashi Arase[3)], Hiroshi Kawamoto[1)]
[1)]Department of Immunology, Institute for Life and Medical Sciences, Kyoto University, [2)]Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, [3)]Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka

WS23-18-O/P

iPS cell-derived NKT cells recognize NCR3LG1 and show anti-tumor effects

◯ Hongxuan Wang, Takahiro Aoki, Mariko Takami, Daiki Shimizu, Katsuhiro Nishimura, Ko Ozaki, Shinichiro Motohashi
Chiba University

WS24 Allergy (II): Mastering Disease Control

12:50 ~ 14:05 Room C

Chairpersons: Saeko Nakajima, Yosuke Kurashima

Building on mechanistic insights from cellular networks in allergy, this session focuses on the regulation of allergic diseases through various experimental models, including atopic dermatitis and food allergy mouse models. By showcasing recent findings from preclinical research, the workshop highlights how disease mechanisms revealed in animal models can guide the development of precision medicine approaches and inform clinical translation. Participants will gain perspectives on how mastering allergy control requires integrating mechanistic studies with translational strategies for future treatment innovations.

WS24-01-O/P

Pivotal roles of receptor for advanced glycation end product in the pathogenesis of allergic contact dermatitis

◯ Ryutaro Yamazaki[1)], Ryotaro Koishi[1)], Tetsuya Honda[2)], Kenji Kabashima[3)], Yasuhiko Yamamoto[4)], Jun Kunisawa[5)], Takahiro Nagatake[1, 5)]
[1)]Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, [2)]Department of Dermatology, Hamamatsu University School of Medicine, [3)]Department of Dermatology, Kyoto University Graduate School of Medicine, [4)]Department of Biochemistry and Molecular Vascular Biology, Kanazawa University Graduate School of Medical Sciences, [5)]Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, Microbial Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health and Nutrition

WS24-02-O/P

Psychological stress induces β2-adrenergic signaling–mediated macrophage immunosenescence and epigenetic suppression of efferocytosis in allergic skin inflammation

◯ Soichiro Yoshikawa[1)], Kei Nagao[1)], Sumika Toyama[1)], Mitsutoshi Tominaga[1)], Kenji Takamori[1, 2)]
[1)]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, [2)]Department of Dermatology, Juntendo University Urayasu Hospital

WS24-03-O/P

Role of resident memory Th2 cells in a protease allergen-induced allergic airway inflammation

◯ Seiji Kamijo, Toshiro Takai, Ko Okumura
Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

WS24-04-O/P

Endogenous soluble ST2 inhibits food allergic responses in murine models

◯ Kumi Izawa[1)], Mayuki Kojima[1, 2)], Tomoaki Ando[1)], Keiko Maeda[1)], Ayako Kaitani[1)], Nobuhiro Nakano[1)], Akie Maehara[1)], Naoko Negishi[1)], Ko Okumura[1)], Jiro Kitaura[1)]
[1)]Atopy Research Center, Juntendo University School of Medicine, [2)]Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine

WS24-05-O/P

Antigen-specific stimulation regulates impaired induction and dysfunction of regulatory T cell in food allergy

◯ Tomohiro Hoshino, Kyoko Shibahara, Haruka Nakanishi, Kohei Soga, Kosuke Nishitsuji, Yoshiyo Bamba, Satoshi Hachimura, Haruyo Nakajima-Adachi
The University of Tokyo

WS24-06-O/P

Differential local IgE responses among mouse strains regulate the severity of food allergy-induced diarrhea

◯ Hiroka Yamashita[1)], Yasutaka Motomura[1, 4)], Kazuyo Moro[1, 2, 3)]
[1)]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2)]Laboratory for Innate Immune Systems, RIKEN-IMS, [3)]Laboratory for Innate Immune Systems, IFReC, The University of Osaka, [4)]Research Institute for Biomedical Science, Tokyo University of Science

WS24-07-O/P

The role of immune cells in the choroid of the eye: Mast cells as regulators of myopia

◯ Shin-ichi Ikeda[1, 2)], Tomokazu Fukuchi[1, 2)], Jue Shi[1, 2)], Kazuno Negishi[1)], Kazuo Tsubota[1, 3)], Toshihide Kurihara[1, 2)]
[1)]Department of Ophthalmology, Keio University School of Medicine, [2)]Laboratory of Photobiology, Keio University School of Medicine, [3)]Tsubota Laboratory, Inc

WS24-08-O/P

The role of conjunctival friction and pollen shells in the goblet cell-associated antigen passage (GAP) formation

◯ Yasuharu Kume[1, 2)], Tomoaki Ando[1)], Keiji Matsumoto[1, 2, 3)], Ryo Omori[1, 2, 3)], Meiko Kimura[1, 2)], Moe Matsuzawa[1, 2)], Kumi Izawa[1)], Ayako Kaitani[1)], Ko Okumura[1)], Shintaro Nakao[1, 3)], Nobuyuki Ebihara[2)], Jiro Kitaura [1, 2, 4)]
[1)]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, [2)]Department of Ophthalmology, Juntendo University Urayasu Hospital, [3)]Department of Ophthalmology, Juntendo University Graduate School of Medicine, [4)]Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine

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WS25 Systemic autoimmunity, Autoinflammation and Immunideficiency 12:50 ~ 14:05 Room D

Chairpersons: Hirofumi Shoda, Miki Haruka

This session focuses on systemic immunopathology encompassing systemic autoimmune diseases such as SLE and Sjögren's syndrome, autoinflammatory diseases, and immunodeficiency. Combining cutting-edge omics approaches with established experimental methodologies using human samples and animal models is crucial for advancing our understanding of the pathogenesis of systemic immune disorders. We anticipate that the presentations in this session will offer valuable insights that contribute to the development of novel therapeutic strategies and ultimately improve patient outcomes.

WS25-02-O/P

Role of IFNγ$^+$CD4$^+$ T cells in promoting autoantibody production via B cell differentiation in a toll-like receptor 7 agonist-induced lupus model

◯ Reona Tanimura, Yuya Kondo, Ryota Sato, Ryohei Nishino, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto
Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS25-03-O/P

Breaking Immune Tolerance: Self and Neoself Discrimination by T cells in Autoimmune Diseases

◯ Shunsuke Mori[1)], Hisashi Arase[1, 2)]
[1)]Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, [2)]Laboratory of Immunochemistry, World Premier International Immunology Frontier Research Centre, The University of Osaka

WS25-13-O/P

A prognostic type I interferon signature in ANCA-associated glomerulonephritis

◯ Nariaki Asada, Robin Khatri, Jonas Engesser, Huiying Wang, Pauline Ginsberg, Ulf Panzer
University Medical Center Hamburg -Eppendorf

WS25-14-O/P

Recognition of Neoself Antigens by Clonally Expanded Salivary Gland T Cells in Sjögren's Syndrome

◯ Katsuhiro Atagi[1)], Shunsuke Mori[1)], Michiko Ohashi[1, 2, 3)], Yang Jing[1, 2)], Shoji Kawada[3)], Noriko Arase[4)], Hui Jin[1)], Masayuki Nishide[3)], Manabu Fujimoto[4)], Atsushi Kumanogoh[3)], Hisashi Arase[1, 2)]
[1)]Research Institute for Microbial Diseases, The University of Osaka, [2)]Laboratory of Immunochemistry, World Premier International Immunology Frontier Research Centre, The University of Osaka, [3)]Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, The University of Osaka, [4)]Department of Dermatology, Graduate School of Medicine, The University of Osaka

WS25-21-O/P

Deciphering state-dependent immune features at single-cell resolution from multi-layer human omics including transcriptomics, germline variants, mosaic chromosomal alterations, and plasma proteomics

◯ Ryuya Edahiro[1, 2)], Go Sato[1, 2, 3)], Tatsuhiko Naito[1, 2)], Yuya Shirai[1, 2)], Atsushi Kumanogoh[1)], Yukinori Okada[1, 2, 3)]
[1)]The University of Osaka, [2)]RIKEN Center for Integrative Medical Sciences, [3)] The University of Tokyo

WS25-23-O/P

Discovery of a shared disease-associated gene module across multiple autoinflammatory diseases and therapeutic implications

◯ Ikuo Takazawa[1)], Haruka Tsuchiya[1)], Takahiro Itamiya[1, 2)], Harumi Shirai[1)], Yumi Tsuchida[1)], Yasuo Nagafuchi[1, 2)], Hirofumi Shoda[1)], Tomohisa Okamura[1, 2)], Keishi Fujio[1)]
[1)]Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan, [2)]Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan

WS25-25-O/P

Aberrant Multicellular Interferon Production and Responses Underlie Adar1 Mutation-Driven Aicardi-Goutières Syndrome-like Encephalopathy

◯ Hyebin Yoo[1)], Taisuke Nakahama[2)], Reiichi Sugihara[3)], Yuki Kato[4)], Yukio Kawahara[5)]
[1)]Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences, The University of Osaka, Suita, Osaka, Japan, [2)]Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Suita, Osaka, Japan, [3)]Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan, [4)]Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan, [5)]Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences and Graduate School of Medicine, Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Center for Infectious Disease Education and Research (CiDER), and Genome Editing Research and Development Center, Graduate School of Medicine, The University of Osaka, Suita, Osaka, Japan

WS25-27-O/P

A human COMMD8 variant causes inborn errors of humoral immunity by impairing B cell migration

◯ Mizuki Kishi[1)], Taiichiro Shirai[1, 2)], Kazuhiro Suzuki[1, 2, 3)]
[1)]Laboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, The University of Osaka, Japan, [2)]Department of Immune Response Dynamics, Research Institute for Microbial Diseases, The University of Osaka, Japan, [3)]Center for Infectious Disease Education and Research, The University of Osaka, Japan

WS26 Cell death and innate lymphocytes

12:50 ~ 14:05 Room E

Chairpersons: Naoko Satoh-Takayama, Yasutaka Motomura

Cell death in epithelial barriers is a fundamental trigger of inflammatory responses. Recent studies have revealed that cytokines released from epithelial cells and macrophages can activate innate lymphocytes, with accumulating evidence pointing to cell death as a key upstream event. Although cell death and innate lymphocytes were once considered unrelated processes, it is now becoming clear that cell death represents an important mechanism linking tissue damage to innate lymphocyte activation. This session will explore the intersection of cell death and innate lymphocytes. By bringing together these perspectives, we aim to deepen our understanding of innate immunity and highlight new conceptual frameworks for how tissue damage and immune activation are interconnected.

WS26-02-O/P

Caspase-12 functions as a pattern recognition receptor that triggers pyroptosis via gasdermin D activation in response to bacterial lipoproteins

◯ Shenghui Zhi, Kohsuke Tsuchiya
Kanazawa University

WS26-04-O/P

Single-cell analysis reveals cell death of a monocyte subset driving NLRP3-mediated IL-1ß secretion in human inflammation

◯ Kentaro Kato[1)], Lieselotte Vande Walle[2)], Mai Yamagishi[3)], Takashi Kamatani[4)], Masaki Shimizu[5)], Takumi Takizawa[6)], Junko Takita[1)], Ryuta Nishikomori[7)], Osamu Ohara[8)], Yoshitaka Shirasaki[9)], Mohamed Lamkanfi[2)], Kazushi Izawa[1)]

[1)]Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2)]Laboratory of Medical Immunology, Department of Internal Medicine and Paediatrics, Ghent University, Ghent, Belgium, [3)]Live Cell Diagnosis, Ltd., Saitama, Japan, [4)]Department of AI Technology Development, M&D Data Science Center, Institute of Integrated Research, Institute of Science Tokyo, Tokyo, Japan, [5)]Department of Pediatrics, Perinatal and Maternal Medicine, Institute of Science Tokyo, Tokyo, Japan, [6)]Department of Pediatrics, Gunma University Graduate School of Medicine, Maebashi, Gunma, Japan, [7)]Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan, [8)]Kazusa DNA Research Institute, Kisarazu, Japan, [9)]Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan

WS26-07-O/P

PP2A negatively controls NK cell proliferation and trafficking to maintain homeostasis in peripheral tissues

◯ Yui Shinzawa[1, 2, 3)], So-Ichiro Sasaki[3)], Sadahiro Iwabuchi[4)], Shinichi Hashimoto[5)], Manabu Kawada[6)], Makoto Kurachi[2)], Yoshihiro Hayakawa[3)]

[1)]Center for Biomedical Research and Education, Kanazawa University, [2)]Department of Molecular Genetics, Kanazawa University, [3)]Section of Host Defences, Institute of Natural Medicine, University of Toyama, [4)]Department of Bioinformatics and Genomics, Kanazawa University, [5)]Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, [6)]Laboratory of Oncology, Institute of Microbial Chemistry

WS26-08-O/P

FURIN is essential for allergic airway inflammation via regulating ILC2 effector function

◯ Takuya Yashiro[1)], Asuka Akamatsu[1)], Kazuyo Moro[1, 2)]

[1)]Laboratory for Innate Immune Systems, Graduate School of Medicine and IFReC, The University of Osaka, [2)]Laboratory for Innate Immune Systems, RIKEN-IMS

WS26-10-O/P

LTi-like cells form gut lymphoid tissues through distinctive Runx/Cbfβ-dependent differentiation

◯ Reo Kobayashi[1)], Takuma Fukui[1)], Eriko Sumiya[2)], Shinichiro Sawa[1)]

[1)]Department of Mucosal Immunology, Medical Institute of Bioregulation, Kyushu University, [2)]Department of Orthopedic Surgery, Faculty of Medicine, University of Tokyo

WS26-12-O/P

Regulatory mechanism of glycosphingolipid expression in mouse NK cell lineage

◯ Luckman Bagas Dwiyana[1)], Ka He[1)], Kazuyoshi Takeda[2)], So-ichiro Sasaki[1)], Yoshihiro Hayakawa[1)]

[1)]Section of Host Defences, Institute of Natural Medicine, University of Toyama, [2)]Laboratory of Cell Biology, Graduate School of Medicine, Juntendo University

WS26-14-O/P

NKT cells mediate germinal center priming and enhance humoral response induced by a novel pneumococcal vaccine

◯ Koji Hayashizaki[1, 2)], Shogo Takatsuka[3)], Taku Ikegami[1)], Toshio Kanno[4)], Masato Kubo[5)], Makoto Tsuiji[6)], Yoshimasa Takahashi[2)], Daisuke Kitamura[7)], Yusuke Endo[4)], Yuki Kinjo[1, 2)]

[1)]Department of Bacteriology, The Jikei University School of Medicine, [2)]Research Center for Vaccine Development, National Institute of Infectious Diseases , [3)]Department of Fungal Infection, National Institute of Infectious Diseases, [4)]Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, [5)]KIC Kyoto University Immunomonitoring Center, Kyoto University, [6)]Department of Microbiology, Hoshi University School of Pharmacy and Pharmaceutical Sciences, [7)]Division of Cancer Cell Biology, Reserch Institute for Biomedical Sciences (RIBS), Tokyo University of Science

WS26-16-O/P

Gasdermin-independent release of IL-1 family cytokines drives skin inflammation induced by Caspase-8 dependent keratinocyte death

◯ Masahiro Nagata[1, 2, 4)], Laurens Wachsmuth[1, 2)], Eunjin Ju[1, 2)], Yasmin Carvalho Schäfer[1, 2)], Remzi Onur Eren[1, 2)], Manolis Pasparakis[1, 2, 3)]

[1)]Institute for Genetics, University of Cologne, Cologne, Germany, [2)]Cologne Excellence Cluster on Cellular Stress Responses in Aging-Associated Diseases (CECAD), University of Cologne, Cologne, Germany, [3)]Center for Molecular Medicine (CMMC), University of Cologne, Cologne, Germany, [4)]Department of Medical Chemistry, Medical Research Laboratory, Institute of Integrated Research, Institute of Science Tokyo, Tokyo, Japan

WS27 Dendritic cells, macrophages, granulocytes

12:50 ~ 14:05 Room F

Chairpersons: Satoshi Nakamizo, Noriko Sorimachi

Myeloid cells—including neutrophils, eosinophils, mast cells, dendritic cells, and macrophages—are central to innate immunity across tissues. This workshop will spotlight how their tissue-specific programs and plasticity coordinate steady-state homeostasis, pathogen clearance and antigen presentation during inflammation, and repair-promoting functions during resolution. We will emphasize organ-specific niches, intercellular crosstalk, and emerging mechanistic insights with direct relevance to infection, allergy, autoimmunity, fibrosis, and cancer. We look forward to lively, constructive discussions that clarify open questions and catalyzes collaboration.

WS27-04-O/P

Resident bronchus-associated macrophages shape the local inflammatory environment in chronic asthma

◯ Suzuka Tokunaga[1)], Kentaro Fujii[2)], Masaru Ishii[1, 2)]

[1)]Department of Immunology and Cell Biology, Graduate School of Frontier Biosciences, The University of Osaka, [2)]Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka

WS27-05-O/P

Specialized immune responses of jawbone macrophages adapted to oral microbial environment

◯ Sumire Kikuchi[1, 2)], Yasuhito Yahara[1, 4)], Narikazu Uzawa[2)], Masaru Ishii[1, 3)]

[1)]Department of Immunology and Cell Biology, Graduate School of Medicine, The University of Osaka, [2)]Department of Oral and Maxillofacial Oncology and Surgery, Graduate School of Dentistry, The University of Osaka , [3)]WPI-Immunology Frontier Research Center, The University of Osaka, [4)]Department of Orthopaedic Surgery, Faculty of Medicine, The University of Toyama

WS27-13-O/P

Macrophage-derived gelsolin promotes fibroblast migration during skin wound healing

◯ Eri Toyohara[1, 2)], Fumiyuki Sasaki[2)], Teruyuki Dohi[1)], Masumi Shimizu[2)], Eriko Koike[2)], Rei Ogawa[1)], Rimpei Morita[2)]

[1)]Department of Plastic, Reconstructive and Aesthetic Surgery, Nippon Medical School, Tokyo, Japan, [2)]Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan

WS27-19-O/P

Distinct TAM Subset with Cross-Dressing Capability Determines the Bifurcation of Tumor Immunity

◯ Kanako Shimizu[1)], A Sanpei[1)], Jun Nakabayashi[2)], Yan Liu[1)], Jun Shinga[1)], An Nakazato[1)], Shin-ichiro Fujii[1, 3)]

[1)]RIKEN, IMS, [2)]Institute of Science Tokyo, [3)]DMP, RIKEN

WS27-34-O/P

Immunological characterization of neutrophils in proteasome subunit β-type 9 variant mouse

◯ Izumi Sasaki[1)], Yuko Ishida[2)], Shiori Kaji[3)], Takashi Kato[4)], Daisuke Okuzaki[5)], Hiroaki Hemmi[6)], Toshikazu Kondo[2)], Tsuneyasu Kaisho[1)]

[1)]Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, [2)]Department of Forensic Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama, 641-8509, Japan, [3)]Second Department of Internal Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, [4)]Department of Rheumatology and Clinical Immunology, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, [5)]Laboratory of Human Immunology (Single Cell Genomics), WPI Immunology Frontier Research Center, The University of Osaka, Osaka 565-0871, Japan, [6)]Laboratory of Immunology, Faculty of Veterinary Medicine, Okayama University of Science, Imabari, Ehime 794-8555, Japan

WS27-35-O/P

Alveolar neutrophil mitochondria promote pulmonary fibrosis via regulation of pro-fibrotic factors

◯ Yoshinari Nakatsuka[1)], Atsuyasu Sato[1)], Yutaka Hirayama[1)], Kazuma Yoshida[2)], Yohei Korogi[1)], Shigeru Ashino[1)], Masanori Matsumoto[3)], Tomohiro Handa[4)], Gabriel Nuñez[5, 6)], Toyohiro Hirai[1)]

[1)]Department of Respiratory Medicine, Graduate School of Medicine, Kyoto University, [2)]Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, [3)]Department of Pathobiology, University of Illinois at Urbana-Champaign, [4)]Department of Advanced Medicine for Respiratory Failure, Graduate School of Medicine, Kyoto University, [5)]Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, [6)]Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS27-36-O/P

The expression and physiological roles of Mrgprb2/MRGPRX2

◯ Ayako Kaitani[1)], Kumi Izawa[1)], Tomoaki Ando[1)], Akihisa Yoshikawa[1, 2)], Mayu Shinagawa[1)], Mio Sasaki[1)], Akie Maehara[1)], Nobuhiro Nakano[1)], Masahiro Nakamura[2)], Ko Okumura[1)], Jiro Kitaura[1)]

[1)]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, [2)]Department of Otorhinolaryngology, Juntendo University Graduate School of Medicine

WS27-37-O/P

Eosinophil-derived IL-27 promotes colon Th17 differentiation

◯ Jun Kasamatsu[1)], Hiroki Yoshida[2)], Katsuyuki Yui[3)], Elizabeth A Jacobsen[5)], Marco Colonna[4)], Hiromitsu Hara[1)]

[1)]Kagoshima University, [2)]Saga University, [3)]Nagasaki University, [4)]Washington University in St. Louis, [5)]Mayo Clinic Arizona

WS28 Bacterial, Fungal, and Parasitic Infections and Immunity

12:50 ~ 14:05 Room G

Chairpersons: Hiromitsu Hara, Chikako Shimokawa

This session will focus on infections caused by non-viral pathogens, including parasites, bacteria, and fungi, and the immune responses that shape their outcomes. Particular emphasis will be placed on the complex interplay between host defense mechanisms and pathogen strategies that drive disease pathogenesis. By integrating perspectives from both sides of the host–pathogen interaction, the session aims to stimulate discussion that not only deepens our understanding of infectious immunity but also fosters the development of innovative research approaches. Ultimately, we hope this dialogue will contribute to the identification of novel therapeutic targets and inform future vaccine development.

WS28-01-O/P

Neutrophils as Potential Effector Cells in Host Resistance to Tick Infestation

◯ Jiali Yan[1)], Tetsuro Kobayashi[2)], Maki Mizumura[1)], Kayoko Yamaji[3)], Hirotaka Kanuka[3)], Hiroko Matsunaga[4)], Haruko Takeyama[4)], Kazuyo Moro[1, 2, 5)]

[1)]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2)]Laboratory for Innate Immune Systems, RIKEN-IMS, [3)]Department of Tropical Medicine, Jikei University School of Medicine, [4)]Biomolecular Engineering Laboratory, Waseda University, [5)]Laboratory for Innate Immune Systems, iFReC, The University of Osaka

WS28-11-O/P

Activation of Gsdmd by Gram-negative bacterial infection and its impact on the pathogenesis

◯ Hideki Hara

Asahikawa Medical University

WS28-13-O/P

Comprehensive transcriptomic approaches reveal disturbance of the heterogeneity of host myeloid cells during Salmonella systemic infection

◯ Hirotaka Hiyoshi[1)], Mohamad Al Kadi[2)], Toshio Kodama[1)], Andreas J. Baumler[3)], Daisuke Okuzaki[2)]

[1)]Institute of Tropical Medicine, Nagasaki University, [2)]WPI immunology Research Center, The University of Osaka, [3)]Department of Medical Microbiology and Immunology, University of California at Davis

WS28-14-O/P

Salmonella persists in splenic monocytes without induction of bactericidal activity

◯ Uki Kimura[1)], Karen Saiki[1)], Nobuhiro Matsuyama[1)], Sei Kashima[1)], Akiko Takaya[2, 3)], Koji Tokoyoda[1)]

[1)]Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan, [2)]Laboratory of Infection Control Science, Graduate School of Pharmaceutical Science, Chiba University, Chiba, Japan, [3)]Medical Mycology Research Center, Chiba University, Chiba, Japan

WS28-17-O/P

Identification of human T cells selectively recognizing non-tuberculous mycobacteria (NTM)

◯ Nanami Kamata[1, 2, 3)], Yoshihiko Hoshino[4)], Nagatoshi Fujiwara[5)], Sho Yamasaki[1, 2, 3, 6)]

[1)]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, [2)]Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, [3)]Center for Advanced Modalities and Drug Delivery system (CAMaD), The University of Osaka, [4)]Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases, [5)]Department of Food and Nutrition, Faculty of Contemporary Human Life Science, Tezukayama University , [6)]Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS28-19-O/P

Mucosal immune network of Th17 cells via gut-mouth axis enhance protection against oropharyngeal candidiasis

◯ Jun-ichi Nagao[1, 2)], Emi Kaji[1)], Sari Kishikawa[1, 2)], Kenji Toyonaga[1, 2)], Sonoko Tasaki[1)], Satoru Iwai[1)], Aoba Iwanuma[1)], Yoshihiko Tanaka[1, 2)]

[1)]Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental Collage, [2)]Oral Medicine Research Center, Fukuoka Dental College

Poster

◯ : Presenter

December 10

WS01 TCR and co-stimulatory molecules

WS01-01-O/P

TCR Affinity and Memory Status Define Competitive Advantage in CD8⁺ T Cells

◯ Masaki Kurosu, Mikiya Tsunoda, Haru Ogiwara, Kouji Matsushima, Satoshi Ueha
Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS01-02-O/P

Antitumor Effects of TNF Ligand–Fusion Proteins Targeting Costimulatory TNFRSF Members on T Lymphocytes

◯ Ayaka Sato[1)], Syuji Toya[1)], Kanon Hase[1)], Masashi Morita[1)], Mari Hikosaka-Kuniishi[1)], Naoto Ishii[2)], Takanori So[1)]
[1)]Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, [2)]Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS01-03-O/P

Complete humanization of MHC genes in mouse

◯ Teruhiko Suzuki[1, 2)], Mana Yamakawa[1, 2)], Saki An[1, 2)], Hiroko Yanagisawa[1)], Yasuhiro Kazuki[3, 4, 5, 6)], Mitsuo Oshimura[3)], Eiji Mizutani[7)], Takahiko Hara[1)]
[1)]Stem Cell Proj., Tokyo Metropol. Inst. Med. Sci., [2)]Immunomed. Group, Tokyo Metropol. Inst. Med. Sci., [3)]CERC, Tottori Univ., [4)]Div. of Chr. Biomed. Eng., Grad. Sch. of Med. Sci., Tottori Univ., [5)]Chr. Eng. Group, ExCELLS., [6)]Sch. of Life Sci., Facul. of Med., Tottori Univ., [7)]Institute of Medicine, University of Tsukuba

WS01-04-O/P

Similar autoreactive regulatory T cell clones are selected during early ontogeny and expand under homeostatic perturbations

◯ Reiko Tsukazaki, Ryuichi Murakami, Shohei Hori
Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS01-05-O/P

Mucosal-associated invariant T cells recognize an intermediary metabolite involved in the DNA synthetic pathway

◯ Yanqi Xue[1)], Chihiro Fukui[1)], Ryosuke Takasaki[2)], Shinsuke Inuki[2)], Daisuke Motooka[4)], Emi Ito[5)], Koji Tamada[3)], Makoto Furutani-Seiki[6)], Kei Sakamoto[7)], Koh-Hei Sonoda[1)], Sho Yamasaki[5)], Kensuke Shibata[8)]
[1)]Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan, [2)]Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto, 606-8501, Japan, [3)]Department of Immunology, Graduate School of Medicine, Yamaguchi University, Yamaguchi, 753-8511, Japan, [4)]NGS core facility, Bioinformatics Center, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, [5)]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Suita, 565-0871, Japan, [6)]Systems Biochemistry in Pathology and Regeneration, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, [7)]Department of Microbiology and Immunology, Graduate School of Medicine, Yamaguchi University, Ube, 753-8511, Japan, [8)]Department of Visual Regeneration, Graduate School of Medical Sciences, Kyushu University, Fukuoka, 812-8582, Japan

WS01-06-O/P

Identification of conserved CD1b motif (RExxD) that restricts biased TCRβ of unconventional T cells

◯ Minori Asa[1)], Yuki Sakai[1)], Mika Hirose[2)], Masamichi Nagae[1, 3)], Go Hirai[4)], Takayuki Kato[2, 6)], Sho Yamasaki[1, 3, 5, 6)]
[1)]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, Japan, [2)]Laboratory for CryoEM Structural Biology, Institute for Protein Research, The University of Osaka, Japan, [3)]Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, Japan, [4)]Graduate School of Pharmaceutical Sciences, Kyushu University, Japan, [5)]Center for Infectious Disease Education and Research (CiDER), The University of Osaka, Japan, [6)]Center for Advanced Modalities and Drug Delivery Systems (CAMaD), The University of Osaka, Japan

WS01-07-P

Multi-omics reveals inter-species variation in bat adaptive immunity

◯ Hao Zhou, Suyue Wang, Kazutaka Katoh, Daron Standley
The University of Osaka

WS01-08-P

PD-1-mediated immune checkpoint system is conserved from sharks to humans

◯ Ryohei Kondo[1)], Kohei Kondo[2)], Kei Nabeshima[3)], Akihiko Nishikimi[1)], Yasumasa Ishida[4)], Toshiaki Shigeoka[4)], Johannes M. Dijkstra[5)]
[1)]Biosafety Division, National Center for Geriatrics and Gerontology, Aichi, Japan, [2)]Antimicrobial Resistance Research Center, Japan Institute for Health Security, Tokyo, Japan, [3)]Biodiveristy Division, National Institute for Environmental Studies, Tsukuba, Japan, [4)]Division of Biological Science, Nara Institute of Science and Technology, Nara, Japan, [5)]Center for Medical Science, Fujita Health University, Aichi, Japan

WS01-09-P

High-avidity antigen-specific CD4+ T cells exhibit distinct, public and convergent TCR sequence features

◯ Dongyun Lu[1, 4)], Celine Chua[1, 4)], Xinxin Xue[1, 4)], Naila Shinwari[1, 4)], Isao Ito[2)], Takao Hashiguchi[1, 3)], Hideki Ueno[1, 4)]

[1)]Department of Immunology, Graduate School of Medicine, Kyoto University , [2)]Department of Respiratory Medicine, Kyoto University Hospital, [3)]Institute for Frontier Life and Medical Sciences, Kyoto University, [4)]Kyoto Immunomonitoring Center (KIC)

WS01-10-P

The establishment of a transgenic mouse system to analyze HTLV-1-driven CD4+ T cell immortalization mechanism

◯ M Ishrat Jahan[1)], Kenji Sugata[1)], Koki Nimura[1)], Nobuko Irie[1)], Takushi Nomura[1)], Kimi Araki[3)], Masahiro Ono[1, 2)], Yorifumi Satou[1)]

[1)]Joint Research Center for Human Retrovirus Infection, Kumamoto University, Kumamoto, 860-8556, Japan, [2)]Department of Life Sciences, Imperial College London, [3)]Division of Developmental Genetics, Institute of Resource Development and Analysis, Kumamoto University, Kumamoto, 860-0811, Japan

WS01-11-P

Autophagy-related ATG8 family proteins are required for integrin LFA1-mediated immunological synapse formation

◯ Naoyuki Kondo[1)], Masahiro Yamamoto[2)], Tatsuo Kinashi[1)]

[1)]Kansai Medical University, [2)]The University of Osaka

WS01-12-P

Identification of T cell epitopes using peptide-MHC-CAR reporter

◯ Emi Inoue, Masako Kohyama, Daiki Mori, Wataru Ise

Division of Microbiology and Immunology Regulation of Host Defense Team, Center for Infectious Disease Education and Research, The University of Osaka

WS01-13-P

Universal platform for the production and structural studies of TCR

◯ Masamichi Nagae[1, 2)], Takae Yabuki[1)], Taiki Ito[1)], Minori Asa[1)], Nanami Kamata[1)], Yuki Sakai[1)], Mika Hirose[3)], Takayuki Kato[3, 5)], Sho Yamasaki[1, 2, 4, 5)]

[1)]Research Institute for Microbial diseases, The University of Osaka, [2)]Immunology Frontier Research Center (IFReC), The University of Osaka, [3)]Institute for Protein Research, The University of Osaka, [4)]Center for Infectious Disease Education and Research (CiDER), The University of Osaka, [5)]Center for Advanced Modalities and Drug Delivery Systems (CAMaD), The University of Osaka

WS01-14-P

Association of TRAIL receptor with phosphatase SHP-1 enables repressing T cell receptor signaling and T cell activation through inactivating Lck

◯ I-Tsu Chyuan[1)], Ping-Ning Hsu[2)]

[1)]National Tsing Hua University, [2)]National Taiwan University

WS01-15-P

Identification of subcellular TCR distribution in T cells with biallelic TCRα expression

◯ Takahiro Iguchi[1)], Taku Kureha[1)], Ryunosuke Muro[2)], Takeshi Nitta[2)], Hiroshi Takayanagi[1)]

[1)]Department of Immunology, Graduate School of Medicine, The University of Tokyo, [2)]Division of Molecular Pathology, Research Institute for Biomedical Sciences, Tokyo University of Science

WS01-16-P

Effector/Memory T Lymphocyte–Targeted Bispecific OX40 Ligand—IL-2 Fusion Protein

◯ Yusuke Ozawa[1)], Riho Itaya[1)], Jun Negami[1)], Masashi Morita[1)], Mari Hikosaka-Kuniishi[1)], Naoto Ishii[2)], Takanori So[1)]

[1)]Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, [2)]Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS01-17-P

WDR11 Interacts with NLRC5 and MHC-I Enhanceosome Proteins to mediate a minor effect on MHC-I Expression

◯ Wei Jie Cheah[1)], Atsuki Takeishi[1, 2)], Koichi Kobayashi[1, 2, 3)]

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WS01-18-P

PD-1 suppresses CAR signaling by forming the inhibitory signalosome colocalizing to CAR microclusters

◯ Hiroaki Machiyama, Yosuke Yoshida, Ei Wakamatsu, Arata Takeuchi, Hitoshi Nishijima, Tadashi Yokosuka

Tokyo Medical University

WS01-19-P

Development of a method for identifying rare antigen-specific T cell clones by integrating a protein language model and optimal transport

◯ Kyohei Kinoshita, Tetsuya Kobayashi

The University of Tokyo

WS01-20-P

Efficient inhibition of DNAM-1 clustering via sequestrating CD155 from DNAM-1-TCR microclusters by CD96 with height

◯ Ei Wakamatsu, Ann Hattori, Hiroaki Machiyama, Hiroko Toyota, Ryuji Hashimoto, Hitoshi Nishijima, Arata Takeuchi, Tadashi Yokosuka
Tokyo Medical University

December 10

WS02 Tumor Immunity - Innate response

WS02-01-P

Myeloma-introduced Type I conventional dendritic cells support the tumor progression

◯ Kazuma Komiya[1)], Sayaka Suzuki[1, 2)], Miya Yoshino[1)], Tsuneyasu Kaisho[3)], Koji Kawamura[2)], Koji Tokoyoda[1)]
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WS02-02-P

Repurposing virus-specific memory CD8+ T cells for immunotherapeutic targeting of virus-infected tumor cells

◯ Yeaji Kim, Yong Woo Jung
Korea University

WS02-03-O/P

Human SIRPα antibody monotherapy activates human macrophages to suppress renal cell carcinoma growth in a humanized mouse model

◯ Tania Afroj[1, 2)], Tomoko Takai[2)], Takenori Kotani[3)], Yoji Murata[3)], Ikumi Katano[4)], Yuchi Iida[1)], Takeshi Takahashi[4)], Takashi Matozaki[2)], Yasuyuki Saito[1, 2)]
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WS02-04-O/P

The role of thymic pDC in tumor immune tolerance

◯ Yangsong Wang, Ryo Nasu, Yukihiro Endo, Motoko Y Kimura
Chiba University

WS02-05-P

The diverse anti-metastatic responses of NK cells in the disseminating target organs

◯ Ka He[1)], Kouki Sekiya[1)], Yui Shinzawa[1, 2)], So-Ichiro Sasaki[1)], Yoshihiro Hayakawa[1)]
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WS02-06-P

Clec4A4 acts as a negative immune checkpoint regulator to suppress antitumor immunity

◯ Tomofumi Uto, Tomohiro Fukaya, Shuya Mitoma, Katsuaki Sato
University of Miyazaki

WS02-07-P

Myeloma cell-derived monoclonal immunoglobulins drive pro-tumorigenic inflammation by promoting the secretion of IL-1β from dendritic cells

◯ Mariko Ishibashi[1)], Mika Sunakawa-Kii[1, 2)], Rimpei Morita[1)]
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WS02-08-O/P

Tumor-Infiltrating Mast Cells Are Associated With Better Efficacy Of Neoadjuvant Therapy By Modulating Desmoplastic Microenvironment

◯ Xiangmei Zhang[1, 3)], Yunjiang Liu[2)], Jidong Zhao[3)]
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WS02-09-P

Fibroblastic reticular cell-derived CXCL12 regulates anti-tumor immune responses in tumor-draining lymph nodes:

◯ Yasuhiro Kanda[2)], Zizheng Wei[2)], Madoka Ozawa[2)], Takashi Nagasawa[1)], Tomoya Katakai[2)]

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WS02-10-P

Immunometabolic Crosstalk: Fbp1-Mediated Metabolic Reprogramming of Macrophages in Pancreatic Cancer

◯ Jiao Ma[1)], Wei Jia[2)]

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WS02-11-O/P

Loss of Histone Methyltransferase Ezh2 Exacerbates Polarization of Macrophages toward M2-Like Phenotypes by Hepatocellular Carcinoma

◯ Tanapat Palaga[1, 4)], Kittin Weerasopon[1)], Atsadang Boonmee[2)], Patipark Kueanjinda[3)]

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WS02-12-P

Komaroviquinone-Derived Compounds Induce Immunogenic Cell Death and Suppress Tumor Growth in vivo

◯ Natsumi Seki[1)], Keita Yoshikawa[1)], Taisei Fujinami[1)], Koki Kurita[1)], Himari Yamada[1)], Yusuke Yamamoto[2)], Yutaka Suto[3)], Maiko Matsushita[1)]

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WS02-13-P

Bacterial infection induces transient melanoma dedifferentiation with attenuated antigenicity

◯ Yutaka Horiuchi, Sara Hatazawa, Riko Kumatabara, Yukie Ando, Momo Mataki, Mio Nakajima, Rikuto Sone, Akihiro Nakamura, Mieko Tokano, Tomonaga Ichikawa, Takashi Murakami

Saitama Medical University

WS02-14-O/P

Abscopal Effect of Oncolytic HSV-1 is Dependent on Plasmacytoid Dendritic Cells

◯ Shumpei Uchida[1)], Hiroyuki Kubo[1)], Katsuaki Sato[2)], Ryutaro Fukui[3)], Kensuke Miyake[3)], Tomoki Todo[3)], Norimitsu Kadowaki[1)]

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WS02-15-P

DNA delivered via lipid nanoparticles effectively modulates immune responses in cancer immunotherapy by activating interferon signaling

◯ Chen-Yi Chiang[1)], Ming-Shu Hsieh[1)], Mei-Yu Chen[1)], Guann-Yi Yu[1)], Ming-Hsi Huang[1, 2, 3)], Shih-Jen Liu[1, 2, 3)], Hsin-Wei Chen[1, 2, 3)]

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WS02-16-O/P

Cancer immunotherapy using CCL19-expressing allogeneic mesenchymal stem cells exerts robust anti-tumor effects in mouse model

◯ Yuichi Iida, Mamoru Harada, Yasuyuki Saito

Shimane University, Fuculty of Medicine, Department of Immunology

WS02-17-O/P

Adenosine-Induced Regnase-1 Expression in Tumor-Associated Macrophages Suppresses T Cell Anti-Tumor Activity

◯ Xingyu Rong[1)], Hai Wang[2)], Osamu Takeuchi[1)]

[1)]Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, Japan, [2)]Key Laboratory of Breast Cancer in Shanghai, Department of Breast Surgery, Fudan University Shanghai Cancer Center, Shanghai Medical College, Fudan University, Shanghai, P.R. China

WS02-18-P

Enhanced anti-tumor effects of a novel CpG ODN, A602, potentiated by CXCL14 and IL-10R blockade

◯ Kosuke Tanegashima[1, 2], Eiji Esashi[3], Manaka Hasebe[2, 4], Riku Takahashi[2, 5], Risa Saito[2, 5], Koji Ishida[3], Ayumi Kotaki[3], Hiroyuki Sasanuma[1], Takahiko Hara[2, 4, 5]

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WS02-19-P

Identification of molecules derived from dead cells involved in immune response and maintenance of host homeostasis

◯ Hideyuki Yanai[1, 2]

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December 10

WS03 Hematopoiesis and diseases

WS03-01-P

Enabling cross-instrument standardization using a dried 20-color spectral and imaging immunophenotyping panel on the BD FACSDiscover™ A8 Cell Analyzer

◯ Hiroyuki Kayo[1], Woodrow Lomas[2], Keisuke Yuki[1], Aaron Middlebrook[2]

[1]Nippon BD Biosciences, [2]BD Biosciences

WS03-02-P

Synergistic Spatial Profiling: Unifying Xenium Transcriptomics and Imaging Mass Cytometry Proteomics for Holistic Tissue Characterization

◯ Tatsuro Nakajima[1], Qanber Raza[2], Atefeh Khakpoor[3, 4], Merrin Mary Eapen[3, 4], Dina Kazemi[3], Erin Coll[5], Thomas Pfister[2], Liang Qiao[6], Anna Di Bartolomeo[6], Helen McGuire[5], Jacob George[6], Ankur Sharma[3, 4]

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WS03-03-O/P

The codon usage sensor DHX29 maintains hematopoietic stem cell quiescence

◯ Ting Cai, Masanori Yoshinaga, Osamu Takeuchi

Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS03-04-P

Characterization of Gut Bacteria with Strong Stimulatory Activity on Hematopoiesis and Immune Cell Reconstitution

◯ Tanakorn Srirat, Yun-Gi Kim

Kitasato University

WS03-05-O/P

Development of Irradiation-Free Mouse bearing Fully Xenogeneic blood System by Intraplacental Transplantation and RUNX1 Deficiency

◯ Chingwei Liao[1, 3, 4], Hyojung Jeon[2], Michito Hamada[1, 4], Satoru Takahashi[1, 4]

[1]University of Tsukuba, [2]Division of Cell Regulation, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo, [3]Human Biology Program, University of Tsukuba, [4]Department of Anatomy and Embryology, University of Tsukuba

WS03-06-P

Nfkbiz regulates the myeloid bias of hematopoietic stem cell during chronic IL-1b-mediated inflammation

◯ Kazunori Toratani[1, 2, 3], Takuya Uehata[1], Osamu Takeuchi[1]

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WS03-07-O/P

Transcription factor trinity, E2A, Ebf1 and Erg, guides B cell fate: Insights from Single-Cell RNA-Seq

◯ Rinako Hayashi[1], Reiko Hidaka[1], Kazuko Miyazaki[1], Takashi Nagasawa[2], Hiroshi Kawamoto[1], Masaki Miyazaki[1]

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WS03-08-O/P

Non-canonical PRC1 complexes are required for lymphoid lineage specification

◯ Mayumi Hirakawa, Lisa Hirano, Tomokatsu Ikawa

Tokyo University of Science

WS03-09-P

Immunophenotypic profile of a novel oncogenic splicing factor, serine/arginine-rich splicing factor 5 (Srsf5) conditional knockout mice

◯ Yukiko Wadamori, Hideyuki Yanai
The University of Tokyo

WS03-10-P

The role Batf in the regulation of erythropoiesis

◯ Kenji Oba, Ryuji Owada, Tomoko Asatsuma-Okumura, Yoshiko Iwai
Nippon Medical School

WS03-11-P

IL-6-C/EBPβ signaling drives monocytic differentiation of murine cultured lymphoid progenitors with immunoregulatory properties

◯ Yohei Kawano[1)], Nozomi Katsuya[1)], Mizuki Moriyama[1)], Shun Ohki[2)], Yasuo Kitajima[1)], Tomoharu Yasuda[1)]
[1)]Department of Immunology, Hiroshima Univerisity, [2)]The University of Kitakyushu

WS03-12-O/P

CB2 Receptor Signaling and Its Impact on Immune cells via HSPC Populations

◯ Nuzat Tabassum Islam[1)], Toru Asahi[1, 2, 3)], Chihiro Nozaki[1, 4)], Haruka Hosoki[1)]
[1)]Department of Life Science and Medical Bioscience, School of Advanced Science and Engineering, Waseda University, [2)]Comprehensive Research Organization, Waseda University, [3)]Research Organization for Nano and Life Innovation, Waseda University, [4)]Global Center for Science and Engineering, Waseda University

WS03-13-O/P

Angiopoietin-like 4 regulates the pathogenesis of pulmonary fibrosis via the phenotypic conversion between myofibroblast and lipofibroblast

◯ Masahiro Kitabatake[1)], Atsushi Hara[1)], Kaito Yasuike[1)], Ryutaro Furukawa[1)], Akihisa Oda[2)], Noriko Ouji-Sageshima[1)], Toshihiro Ito[1)]
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WS03-14-O/P

A Dual-Targeting Strategy to Inhibit the Development of Neutralizing Anti-FVIII Antibodies in a Murine Model of Hemophilia A

◯ Akihisa Oda[1)], Kenichi Ogiwara[1)], Masahiro Kitabatake[2)], Noriko Ouji-Sageshima[2)], Atsushi Hara[2)], Kaito Yasuike[2)], Toshihiro Ito[2)], Keiji Nogami[1)]
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December 10

WS04 Arthritis and Fibrosis

WS04-01-O/P

GM-CSF controls pathogenic function of Ly6Chi monocyte-derived macrophages crucial for synovial inflammation in autoimmune arthritis

◯ Hiroki Mukoyama[1, 2)], Yusuke Takeuchi[1, 2)], Daiya Ohara[1)], Yoonha Lee[1)], Hitomi Watanabe[1)], Gen Kondoh[1)], Akio Morinobu[2)], Keiji Hirota[1)]
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WS04-02-O/P

Aging-related alterations of effector CD4+ T cells in arthritis model mice

◯ Shusuke Tanaka, Taihei Nishiyama, Airi Kondo, Ayako Ohyama, Hiromitsu Asashima, Haruka Miki, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto
Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS04-03-O/P

Exploring the epigenomic landscapes of synovial fibroblast diversification in rheumatoid arthritis by single-nucleus multi-omics analyses

◯ Reo Yamazato[1)], Risa Yoshihara[1)], Ikuo Takazawa[1)], Sotaro Nakajima[1)], Yasunori Omata[2)], Sakae Tanaka[2)], Tomohisa Okamura[3)], Haruka Tsuchiya[1)], Keishi Fujio[1)]
[1)]Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2)]Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [3)]Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

WS04-04-O/P

Neoself IgG is a Primary Antigen Driving the Clonal Expansion of Autoreactive T Cells in Rheumatoid Arthritis

◯ Jing Yang[1, 2], Shunsuke Mori[1], Hui Jin[1], Hiroyuki Yoshitomi[3, 4], Hideki Ueno[3, 4], Hisashi Arase[1, 2]

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WS04-05-O/P

Using Tocilizumab to Treat Castleman Disease and Rheumatoid Arthritis:Bocking IL-6 Improves pathology of Diseases with different Etiologies

◯ Kazuko Uno[1], Kazuyuki Yoshizaki[2]

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WS04-06-P

Computer model of remote inflammation of rheumatoid arthritis

◯ Satoshi Yamada[1], Akihiko Yoshimura[2], Kaoru Murakami[3], Rie Hasebe[4], Masaaki Murakami[3, 4, 5]

[1]Okayama University of Science, [2]Tokyo University of Science, [3]Hokkaido University, [4]National Institute for Physiological Sciences, [5]National Institutes for Quantum and Radiological Science and Technology

WS04-07-P

Regulatory T cells show differential therapeutic effects in chronic autoimmune conditions depending on target tissue

◯ Yuji Nishimura, Hiroshi Kawamoto

Kyoto University

WS04-08-P

Intermittent pharmacological cell-cycle arrest provides anti-arthritic effects preserving favorable safety profile

◯ Risa Tsubota, Hiroyuki Baba, Akio Yamamoto, Natsuka Umezawa, Tetsuya Saito, Shinsuke Yasuda, Tadashi Hosoya

Institute of Science Tokyo

WS04-09-P

Periodontitis-associated oral commensal microbes contribute to the pathogenesis of arthritis

◯ Takehiro Suzuki[1, 2], Sho Kitamoto[1], Masayuki Nishide[2], Atsushi Kumanogoh[2], Nobuhiko Kamada[1]

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WS04-10-P

Expression analysis of TIGIT and DNAM-1 in GPI-induced arthritis

◯ Airi Kondo, Hiromitsu Asashima, Shusuke Tanaka, Taihei Nishiyama, Ayako Ohyama, Haruka Miki, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto

University of Tsukuba

WS04-11-P

The enteric nervous system is involved in the pathogenesis of arthritis via the intestinal flora

◯ Takayoshi Owada[1], Anna Hasegawa[2], Ayae Tanaka[2], Keiko Hatanaka[2], Wataru Fujii[2], Hirokuni Hirata[1], Kazuhiro Kurasawa[2], Kei Ikeda[2], Hiroshige Yoshioka[1], Masahiko Hatano[3], Masafumi Arima[2]

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WS04-12-P

Effects of Autoimmune Disease on Pulp healing Following Direct Pulp Capping in Mice

◯ Noriko Muto, Nobuyuki Tani-ishii

The Nippon Dental University Hospital

WS04-13-O/P

RANKL controls vascular permeability in bone marrow sinusoids

◯ Takeshi Kaneko[1, 2, 3], Shinya Yari[1], Junichi Kikuta[1, 3, 4], Atsushi Kumanogoh[2, 3], Masaru Ishii[1, 3]

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WS04-14-O/P

Microbiota-derived peptide corisin promotes cellular senescence in podocytes

◯ Tomoko Ano[1], Taro Yasuma[1, 2], Valeria Fridman[1], Corina Gabazza[1], Atsuro Takeshita[1, 2], Yuko Okano[2], Chisa Inoue[2], Kota Nishihama[2], Masaaki Toda[1], Esteban Gabazza[1]

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WS04-15-P

Pericytes Protect against Pulmonary Fibrosis through Fibrotic Neutrophils Regulation

◯ Yingying Zhang[1, 3], Tadamitsu Kishimoto[1, 2], Sujin Kang[1, 2]

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WS04-16-P

Direct analysis of hepatic stellate cells with flow cytometry in specimens derived from the human liver

◯ Toshiaki Bando[1], Hirotaka Sato[1], Shunsuke Uno[1], Hajime Morita[1], Lynn Zreka[1], Shuhe Ma[1, 3], Mouna Khan[1], Daichi Akuzawa[1], Yuki Masuo[1], Takeshi Ito[2], Hideki Ueno[1, 3, 4]

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WS05 Skin and Mucosal Immunity

WS05-01-O/P

Keratinocyte Cx26 Gain-of-Function Mutation Compromises Anti-Candida Skin Defense via Impaired Sensing and Chemokine Production

◯ Alshimaa Mostafa[1], Teruasa Murata [2], Akihiko Kitoh[1], Kenji Kabashima[1]

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WS05-02-P

Epidermis-derived Hyaluronan Synthesized by Hyaluronan Synthase 3 Promotes Th2 inflammation by Regulating CCL19-Producing Dermal Fibroblasts in Atopic Dermatitis

◯ Takehiro Takahashi[1], Mayuko Onodera-Amagai[1], Takuya Takahashi[1], Hitoshi Terui[1], Toshiya Takahashi[1], Maki Ozawa[1], Risa Ebina-Shibuya[2, 3], Hiroki Kato[4], Kazuki Sakurai[4], Yu Yamaguchi[5], Setsuya Aiba[1], Yoshihide Asano[1]

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WS05-03-P

ILC1-Derived Amphiregulin Regulates Epithelial Turnover in Response to Mechanical Stress in the Skin

◯ Tetsuro Kobayashi[1], Miho Mochizuki[1], Naho Hagiwara[1], Hachiro Iseki[2], Katsuhito Fujiu[3], Daisuke Asanuma[4], Kazuyo Moro[1, 5, 6]

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WS05-04-O/P

Identification of an Atypical Keratinocyte Subset as the Primary Source of IL-23 in Psoriatic Skin Inflammation

◯ Yoonha Lee[1], Daiya Ohara[1, 2], Hiroki Mukoyama[1, 3], Yusuke Takeuchi[1, 3], Kazuki Sakatoku[1], Hitomi Watanabe[1], Akinori Takaoka[4], Toshiaki Ohteki[5], Junji Takeda[6], Gen Kondoh[1], Hideo Harigae[7], Keiji Hirota[1, 8]

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WS05-05-P

Cold Exposure during Sensitization Phase Enhances Murine Contact Hypersensitivity Response

◯ Tomoya Takegami, Satoru Yonekura, Shuto Kanameishi, Koki Kataoka, Midori Uchibayashi, Marco Llantuy-Aulestia, Saeko Nakajima, Kenji Kabashima

Kyoto University

WS05-06-O/P

Spatial reconstitution of inducible skin-associated lymphoid tissue (iSALT) uncovers local crosstalk between CD301b+ cDC2 and CD8+ T cell in contact dermatitis

◯ Fuuka Minami[1)], Ryota Asahina[1, 2)], Akiyoshi Senda[1)], Gyohei Egawa[3)], Satoshi Nakamizo[1)], Kenji Kabashima[1)]

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WS05-07-O/P

CXCL16–CXCR6 axis anchors epidermal CD8⁺ TRM cells to promote recall responses in a contact hypersensitivity model

◯ Takahide Iioka[1)], Ryota Asahina[1, 2)], Fuuka Minami[1)], Toshiya Miyake[1)], Kenji Kabashima[1)]

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WS05-08-P

Tn antigen suppresses lipopolysaccharide-induced dermatitis via Clec10a

◯ Katsunobu Shigematsu[1, 2)], Kenshiro Matsuda[1, 3, 4)], Tsukasa Nabekura[3, 4)], Kazuko Shibuya[1, 4)], Hiroaki Tateno[5)], Akira Shibuya[1, 3, 4)]

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WS05-09-P

Sulfotransferase SULT2B1 Maintains the Epithelial–Immune Microenvironment Homeostasis in Imiquimod-Induced Psoriatic Dermatitis

◯ Kenji Morino, Sayaka Akiyoshi, Yoshinori Fukui, Kazufumi Kunimura

Medical Institute of Bioregulation, Kyushu University

WS05-10-P

Lowering uric acid levels suppresses psoriatic inflammation in an imiquimod-induced psoriasis model

◯ Yoshitaka Kimura, Yayoi Tada, Yusuke Yoshino, Hajime Kono

Teikyo University

WS05-11-P

Identification of Novel Roles of Lysophospholipids in Psoriasiform Dermatitis

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WS05-12-O/P

Dry skin–associated neonatal immune dysregulation in Langerhans cells triggers atopic dermatitis development

◯ Tomoka Ito[1)], Reika Aoyama[1)], Seitaro Nakagawa[1, 2)], Naohiro Inohara[3)], Yoko Ichikawa[4)], Naoki Shimojo[5)], Manabu Fujimoto[1, 6)], Yumi Matsuoka-Nakamura[1, 2, 7)]

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WS05-13-O/P

Constipation-Induced Gut Dysbiosis Aggravates Acne through Tryptophan Metabolites Depletion

◯ Masakazu Tamai[1, 2)], Takashi Sugihira[1, 2)], Manabu Fujimoto[1, 3)], Yumi Matsuoka-Nakamura[1, 2)]

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WS05-14-O/P

Th17-Derived RANKL Drives Club-to-M Cell Transdifferentiation to Aggravate Secondary Bacterial Pneumonia

◯ Shunsuke Kimura[1, 2)], Shingo Kawai[1)], Takahiro Yamada[1)], Yutaka Nakamura[1)], Koji Hase[1)]

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WS05-15-P

Nasal Nanogel-based PspA Vaccine Elicits Protective Immunity Against Streptococcus pneumoniae in Aged Mice

◯ Korrie Salsabila[1, 2)], Fujimi Arai[3, 4)], Risa Takahashi[3, 4)], Tomoyuki Yamanoue[3, 4)], Yoshikazu Yuki[3)], Hiroshi Kiyono[3, 4, 5, 6, 7, 8)], Naruhiko Ishiwada[2)], Kohtaro Fujihashi[3, 4, 8, 9, 10)]

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WS05-16-O/P

Alcaligenes lipid A acts as a potent sublingual vaccine adjuvant to augment protective immune responses both in the respiratory and gastrointestinal tracts

◯ Ken Yoshii[1)], Yuki Hirayama[1, 2)], Keigo Iemitsu[1, 3)], Hiroshi Kiyono[4, 5, 6)], Jun Kunisawa[1, 2, 3, 4, 7, 8, 9, 10)]

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WS05-17-P

Mild heat stimuli affect systemic immune conditions differently dependent on combinations of specific skin surface points - a clinical study -

◯ Takuma Nakajima, Atsuko Shimada, Atsuko Masuda, Ryo Saito, Keiso Ishimaru

SBC Tokyo Medical University

WS05-18-P

Heterogeneity in the murine conjunctival goblet cells

◯ Keiji Matsumoto[1, 2, 3)], Tomoaki Ando[1)], Yasuharu Kume[1, 2, 3)], Ryo Omori[1, 2, 3)], Meiko Kimura[1, 2, 3)], Moe Matsuzawa[1, 2, 3)], Kumi Izawa[1)], Ayako Kaitani[1)], Ko Okumura[1)], Shintaro Nakao[3)], Nobuyuki Ebihara[2, 3)], Jiro Kitaura[1, 4)]

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December 10

WS06 B cell development, activation, and antibody production

WS06-01-O/P

The interplay between transcription factors E2A and Erg shapes the enhancer landscape underlying B cell identity and signature gene expression

◯ Reiko Hidaka[1, 2)], Kazuko Miyazaki[1, 2)], Hiroshi Kawamoto[1, 2)], Masaki Miyazaki[1, 2)]

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WS06-02-O/P

In vivo acute degradation of E2A reveals its enhancer regulations in early lymphocyte development and activation

◯ Rei Kuwata[1)], Kazuko Miyazaki[1)], Hitomi Watanabe[1)], Ichiro Taniuchi[2)], Hiroshi Kawamoto[1)], Masaki Miyazaki[1)]

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WS06-03-O/P

EMC1 enforces an ER-integrated checkpoint for B cell activation and humoral immunity

◯ Kazuhiko Kawata, Yoshihiro Baba

Division of Immunology and Genome Biology, Medical Institute of Genome Bioregulation, Kyushu University

WS06-04-P

CD72 is a novel C1q receptor that inhibits B cell responses to apoptotic cells, crucial in the development of SLE

◯ Hashadi Nadeesha Walakulu Gamage[1, 2)], Takeshi Tsubata[1, 2)], Nadeesha Gayathri Hewassa Gamage[1)], Chizuru Akatsu[1)], Tsuneshige Takahiro[1)], Nobutaka Numoto [1)], Masatake Asano[2)], Nobutoshi Ito[1)]

[1)]Institute of Science Tokyo , [2)]Department of Pathology, Nihon University

WS06-05-P

Role of IRF4 in transcriptional regulation through autoimmune disease-associated proteins Swap70 and Def6 and its subcellular localization

◯ Katsuya Sato, Hitoshi Nagaoka
Department of Molecular Pathobiochemistry, Gifu University School of Medicine

WS06-06-P

Ectopic expression of Parm1 revealed the existence of two novel glycosylation form

◯ Chinatsu Yanagawa[1)], Kagefumi Todo[2)], Haruka Honda[3)], Masaki Hikida[1)]
[1)]Akita University, [2)]Tokiwa University, [3)]Anan College

WS06-07-P

Establishment and analyses of anti-Parm1 monoclonal antibody

◯ Koki Wagatsuma[1)], Kagefumi Todo[2)], Haruka Honda[3)], Masaki Hikida[1)]
[1)]Akita University , [2)]Tokiwa University, [3)]Anan College

WS06-08-P

Lymphocyte function-associated antigen-1 is involved in the regulation of IgE class switch recombination and production in human peripheral blood B cells

◯ Kano Tanabe, Yukinori Kozuma
Kumamoto Health Science University

WS06-09-O/P

The importance of IL-1 - IL-1 receptor signaling to T-cell-independent type 2 responses

◯ Mari Tenno, Daisuke Kitamura
Tokyo University of Science

WS06-10-P

Innate immune memory in complexin 2-expressing innate-like B cells mediated by TLR4

◯ Emi Tsuru[1)], Yoshihiro Yamashita[1)], Atsuya Nobumoto[2)], Masayuki Tsuda[1)]
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WS06-11-O/P

In vivo conversion to broader and non-self-reactive influenza virus-specific antibody

◯ Chieko Okamura[1, 2)], Hikaru Hata[2, 3)], Takashi Watanabe[4)], Mikako Shirouzu[5)], Ryota Sato[2, 3)], Qingshun Lin[2)], Taishi Onodera[6)], Yoshimasa Takahashi[6)], Quan-Zhen Li[7)], Yoshinobu Okuno[8)], Tomohiro Kurosaki[2, 9)], Hidehiro Fukuyama[1, 2, 3, 10)]
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WS06-12-P

Agonistic anti-RP105 monoclonal antibody induces IgD production, unlike other B cell stimulants

◯ Tatsuya Yamazaki[1)], Kenta Iwasaki[2)], Susumu Tomono[1)], Masanori Inui[1)], Sachiko Akashi-Takamura[1)]
[1)]Department of Microbiology and Immunology, Aichi Medical University School of Medicine, [2)]Department of Kidney Diseases and Transplant Immunology, Aichi Medical University School of Medicine

WS06-13-O/P

Identification of autoantibodies promoting remyelination in aging

◯ Ayame Nagafuchi[1)], Mana Iizuka[2)], Ako Matsui[1)], Akihiko Yoshimura[2)], Minako Ito[1)]
[1)]Kyushu University, [2)]Tokyo University of Science

WS06-14-P

Enhanced lymphocyte infiltration in the liver of LDL receptor and MD-1 double-deficient mice on a high-fat diet

◯ Sachiko Akashi-Takamura[1)], Mrityunjoy Biswas[1)], Kenji Kasai[2)], Masanori Inui[1)], Naoko Morita[1)], Akinori Okumura[1)], Tatsuya Yamazaki[1)], Bristy Basak[1)], Fumiaki Nagaoka[1)], Hidekazu Takagi[1)], Susumu Tomono[1)]
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WS06-15-P

Immunoglobulin Expression in the Mouse Brain

◯ Keiko Morimoto, Hitomi Sano, Kazunori Nakajima
Keio University School of Medicine

December 10

WS07 Tolerance and Immune Suppression

WS07-01-O/P

Targeted cell by Treg suppression in vitro and in vivo

◯ Yoshihiro Oya[1, 2, 4], Takuya Nakazawa[2], Ryutaro Matsumura[2], Hiroshi Nakajima[3], Ethan M Shevach[4]

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WS07-02-O/P

A Foxp3-dependent core epigenetic and transcriptional program in Tregs

◯ Yuxi Wei, Ryuichi Murakami, Akira Nakajima, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS07-03-O/P

Runx/Cbfβ regulates the development of tolerogenic Thetis cells

◯ Chihiro Ogawa, Ichiro Taniuchi

RIKEN Center for Integrative Medical Sciences

WS07-04-O/P

Combinatorial analysis of spatial transcriptomics and scRNA-Seq reveals the influence of aging on the differentiation program of thymic epithelial cells

◯ Kano Namiki[1, 2], Takahisa Miyao[1], Nobuko Akiyama[1, 2], Taishin Akiyama[1, 2]

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WS07-05-O/P

Gravity reduction leads to upregulation of the transcription factor ELF3 in the thymus, which disrupts the thymic epithelial cell differentiation program

◯ Wataru Muramatsu[1], Nobuko Akiyama[1, 2], Takahisa Miyao[1], Masafumi Muratani[3], Takashi Kudo[4], Satoru Takahashi[4], Taishin Akiyama[1, 2]

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WS07-06-O/P

Immunopeptidomic identification of SLA-derived HLA class II ligands recognized by human T cells, using a strategy adapted for xenotransplantation

◯ Kenta Iwasaki[1], Ken Kawasa[2], Susumu Tomono[3], Yuko Miwa[1], Masato Shizuku[2], Satoshi Ashimine[2], Kohei Ishiyama[2], Ekser Burcin[4], Sachiko Akashi-Takamura[3], Takaaki Kobayashi[2]

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WS07-07-O/P

Function of ectopic MHC class II expression on non-immune cells in immune response

◯ Wataru Nakai[1, 2], Hisashi Arase[1, 2, 3, 4, 5]

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WS07-08-P

Stochastic martingale turnover of immune cells autonomously achieves appropriate balance

◯ Tomoyuki Yamaguchi

Research Institute, Nozaki Tokushukai Hospital

WS07-09-P

Multi-omics Exploration of Spatiotemporal Immune Landscape Remodeling from Rejection to Tolerance in a Mouse Liver Transplantation Model

◯ Xin Hu[1], Yixian Fan[1], Yifang Shui[1, 2], Masayuki Fujino[1, 3], Xiao-Kang Li[1]

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WS07-10-P

The regulation of c-Myc-mediated oxidative metabolism by a transcription factor Bcl11B is required for effector program of regulatory T cells

◯ Kenji Ichiyama, Shimon Sakaguchi
Department of Experimental Immunology, Immunology Frontier Research Center, The University of Osaka

WS07-11-P

Elucidation of atheroprotective function of peripheral blood Treg cells and its molecular and cellular basis

◯ Takashi Sekiya
National Institute of Global Health and Medicine

WS07-12-P

TIGIT works as a ligand to suppress activated T cells via CD155 signal and to provide memory potential

◯ Naoko Negishi, Jiro Kitaura, Ko Okumura, Sonoko Habu
Juntendo University Graduate School of Medicine

WS07-13-P

Involvement of quercetin on type 3 inflammatory responses via CXCL2 upregulation

◯ Miki Oguri, Miyoko Matsushima, Shino Ando, Yuzuki Matsuda, Miharu Kawashima, Hiyori Takano, Tsutomu Kawabe
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December 10

WS08 CD8+ T cell immunity

WS08-01-O/P

TAP-independent induction of N-myristoylated lipopeptide-specific CTLs in transgenic mice expressing rhesus lipopeptide-presenting MHC class I molecules

◯ Hiromu Suzuki[1, 2], Daisuke Morita[1]
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WS08-02-O/P

Strategy for achieving both safety and efficacy of CTL-inducing vaccines using a low molecular drug

◯ Kensuke Takada[1], Zimeng Cai[2, 3], Mina Kozai[1], Kazuhiro Matsuo[1]
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WS08-03-O/P

Vitamin C transporter 2, Slc23a2, is required for normal T cell development and optimal CD8+ T cell immune responses

◯ Kenta Kondo[1], Mina Kumode[1, 2], Tatsuya Hasegawa[1], Noriyuki Sugo[3], Yasutoshi Agata[1]
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WS08-04-O/P

MHC class II restrains colonic CD8 T cell activation via CD4 T cells and LAG-3

◯ Tomoya Sengiku[1], Masato Kubo[2, 3], Takumi Maruhashi[4], Taku Okazaki[4], Shohei Hori[1], Ruka Setoguchi[1]
[1]Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, [2]Research Institute for Biomedical Science, Tokyo University of Science, [3]Research Center for Integrative Medical Science (IMS), RIKEN Yokohama Institute, [4]Laboratory of Molecular Immunology, Institute for Quantitative Bioscience, The University of Tokyo

WS08-05-O/P

Dysfunctional Mitochondria Promotes DNA Damage and T Cell Exhaustion in CD8+ T Cells

◯ Kung-Chi Kao, Yu-Ming Chuang, Ping-Chih Ho
University of Lausanne

WS08-06-O/P

Single-Cell and Spatial Transcriptomics Reveal Distinct Immune Features in Oral squamous cell carcinoma and IgG4-Related Disease

◯ Ling Zhang[1], Takashi Maehara[1, 2], Marina Koga[1], Risako Koga[1], Ryuichi Aoyagi[1], Yuuka Toda[1], Ryusuke Munemura[1], Shintaro Kawano[1]
[1]Section of Oral and Maxillofacial Oncology, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, Fukuoka, Japan, [2]Dent-craniofacial Development and Regeneration (DDR) Research Center, Faculty of Dental Science, Kyushu University, Fukuoka, Japan

WS08-07-O/P

Bystander expansion of GzmK$^+$GzmB$^+$ CD8 T cells in the joint of rheumatoid arthritis

◯ Takahiro Natori[1)], Hisakata Yamada[2)], Ryosuke Tsurui[1)], Shinya Kawahara[1)], Yukio Akasaki[1)], Yasuharu Nakashima[1)]
[1)]Department of Orthopedic Surgery, Kyushu University, [2)]Department of Immunology, Kochi University

WS08-08-P

Detection of Memory CD8$^+$ T Cell Activation Using Lens-free Shadow Imaging for Vaccine Response Evaluation

◯ Hyunjin Moon, Yong Woo Jung
The University of Korea

WS08-09-P

Heterogeneity of CD8$^+$ T cells distributed in the aged mouse brain

◯ Zhihuan Wang[1)], Emi Furusawa-Nishii[1)], Kouhei Ohba[1)], Sunao Takahashi[1)], Miho Mizuno[1)], Ayami Okuzumi[2)], Taku Hatano[2)], Sachiko Miyake[1)]
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WS08-10-P

The C-terminal motif of Nkg7, a cytolysis-associated molecule, is essential for its lysosomal targeting and may affect granule exocytosis

◯ Ryosuke Kumagai[1)], Yuka Okabe[1, 2)], Ryuichi Nagashima[1, 2)], Hiroaki Takimoto[1, 2)], Koji Eshima[1, 2)]
[1)]Division of Immunology, Kitasato University Graduate School of Science, [2)]Division of Immunology, Department of Biosciences Kitasato University School of Science

WS08-11-P

Overexpression of the transcriptional corepressor Tle1 enhances effector proliferation of CD8+ T cells during acute and chronic viral infections

◯ Sotaro Fujisawa[1)], Ryotaro Shiga[1)], Yamato Tanabe[1, 2, 3)], Makoto Kurachi[1)]
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WS08-12-P

The role of the transcription factor Zscan10 in T cell immune responses

◯ Yuri Tsuchiya[1)], Rina Matsuda[1)], Honoka Miyahara[2)], Hirotake Tsukamoto[2)], Ayumi Sumizaki[3)], Masaki Yasukawa[1, 3)], Takeshi Yamada[1, 3)]
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WS08-13-P

NOSIP promotes the persistency of CD8$^+$ T cells under chronic viral infections and tumors

◯ Makoto Utsunomiya[1)], Toshikatsu Tamai[1, 2)], Shihui Li[2)], Sotaro Fujisawa[1)], Yamato Tanabe[1)], Yui Shinzawa[1)], Hidetoshi Nagakawa[2)], Eishiro Mizukoshi[2)], Makoto Kurachi[1)]
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WS08-14-P

A novel filamentous-derived antibiotics derivative exerts anti-tumor effect by inducing differentiation of Tc9-like CD8 T cells

◯ Natsumi Imano, Mikako Nishida, Nahoko Yamashita, Miho Tokumasu, Weiyang Zhao, Heiichiro Udono
Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences

WS08-15-P

Analysis of vitiligo developing in autoimmune prone mice

◯ Marii Ise, Yuriko Tanaka, Taku Naito, Taku Kuwabara, Motonari Kondo
Toho University Faculty of Medicine

WS08-16-P

Investigating the function of IFN-g regulatory gene in CD8+ T cells

◯ Taku Kureha, Hiroshi Takayanagi
The Universtiy of Tokyo

WS08-17-P

Matrix metalloproteinase inhibitor enhances cytotoxic T lymphocyte effector function through tumor cell stimulation

◯ Hidefumi Kojima[1)], Yuji Nakai[2)]
[1)]Division for Medical Education Research and Development, Center for Medical Education Development and International Exchange, Dokkyo Medical University School of Medicine, Tochigi, [2)]Institute of Regional Innovation, Hirosaki University, Aomori

WS08-18-P

Single-cell analysis of vaccine-induced T cells reveals molecular changes associated with impaired memory response in older adults

◯ Ayana Sunami[1, 2], Norihide Jo[2, 3], Yoko Hamazaki[1, 2, 4]

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WS08-19-P

A small Maf protein MafF is essential for survival of peripheral CD8 T cells

◯ Masayuki Kitajma, Harumi Suzuki

Department of Immunology and Pathology, National Institute of Global Health and Medicine

December 10

WS09 Tumor Immunity - Microenvironment

WS09-01-P

Cell state analysis of immune cells in the tumor microenvironment with deep learning

◯ Jiaxin Li[1], Artem Lysenko[2], Tatsuhiko Tsunoda[1, 2]

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WS09-02-P

Development of ex vivo patient-derived models to uncover the tumor-immune microenvironment

◯ Soki Kashima[1, 2], David Braun[1]

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WS09-03-O/P

Redistribution of Intratumoral Iron with Polymeric Iron Chelator Boosts Antitumor Immunity

◯ Haochen Guo[1], Nobuhiro Nishiyama[1, 2, 3], Takahiro Nomoto[4]

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WS09-04-O/P

Hierarchical immune suppression by Tregs via TGFβ1-induced macrophage programming_x000D_in cancers

◯ Qiao Gou, Hiroyuki Takaba, Hiroshi Takayanagi

The University of Tokyo

WS09-05-P

Systematic TME Construction and Immune Cell Subtyping in Glioblastoma

◯ Shangru Jia, Tatsuhiko Tsunoda, Artem Lysenko

The University of Tokyo

WS09-06-P

A novel pro-metastatic role of interleukin-17F in a mouse model of melanoma lung metastasis

◯ Masayuki Umemura[1], Toshihiro Konno[1, 2], Kohsuke Tsuchiya[3], Hiroyasu Kidoya[4]

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WS09-07-O/P

Expanding the Application of IgNAR Antibodies derived from Shark for Next-next-generation Cancer Antibody Therapeutics

◯ Yuki Nitta[1, 2], Wataru Takagi[3], Susumu Hyodo[3], Masahiro Yasunaga[1, 2]

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WS09-08-P

Increased Spp1 expression and tumorigenesis in mammary glands of IL-21 isoform transgenic mice

◯ Risako Yamaguchi, Akemi Araki, Junji Yokozawa, Shinichi Saitoh, Yuji Takeda, Hironobu Asao

Department of Immunology, Faculty of Medicine, Yamagata University

WS09-09-P

Targeting SPRED2 to Unleash ERK-Driven CD8⁺ T Cell Responses and Memory Development in Breast Tumor Immunity

◯ Miao Tian, Teizo Yoshimura, Chunning Li, Tong Gao, Masayoshi Fujisawa, Toshiaki Ohara, Akihiro Matsukawa
Okayama University

WS09-10-O/P

Induction of tertiary lymphoid structures via chemokine-based immunotherapy for solid tumors

◯ Taro Suzuki, Keitaro Kanie, Tomoko Ishii, Shin Kaneko
Kyoto University

WS09-11-O/P

The effect of acrolein on anti-tumor effects and its relationship with ferroptosis

◯ Koki Ichimaru, Koji Kitaoka, Yasuharu Haku, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto
Department of Immunotherapy and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University School of Medicine

WS09-12-P

Antitumor effect of Lipo-P4-aPDL1 on ES-2 transplanted humanized mouse model

◯ Kosuke Tabe[1, 2)], Mariko Miyazawa[1)], Yuki Hoshino[1)], Shino Oshima[1)], Yoshiyuki Manabe[3)], Hitoshi Ishimoto[2)], Takashi Shiina[1)], Yoshie Kametani[1)]
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WS09-13-P

Elucidation of Tumor Microenvironment (TME) Factors Hindering Antibody Drug Delivery in Pancreatic Cancer: Comparative Analysis with Colorectal Cancer and Overcoming Strategies

◯ Yuki Tsuji[1, 2)], Masahiro Yasunaga[1, 2)], Hirobumi Fuchigami[2)], Takahiro Anzai[3)]
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WS09-14-O/P

Modulation of the tumor microenvironment by allogeneic cell transfer enhances PD-1 bloclkade efficacy via inhibition of T cell exhaustion

◯ Ryotaro Imagawa, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto
Kyoto University

WS09-15-O/P

Repetitive Fasting-Refeeding Synergizes with Metformin to Promote CXCR6+ CD8T cell Migration to Tumors via VCAM-1 on Normalized Tumor Vasculature in the Refeeding Phase

◯ Weiyang Zhao[1)], Miho Tokumasu[1)], Mikako Nishida[2)], Natsumi Imano[1)], Nahoko Yamashita[2)], Heiichiro Udono[2)]
[1)]Department of Immunology, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences, [2)]Department of Metabolic Immune Regulation, Okayama University Faculty of Medicine, Dentistry and Pharmaceutical Sciences

WS09-16-P

A hybrid approach integrating deep learning and mathematical modeling of the cancer immunity cycle for optimizing immunoradiotherapy

◯ Taisuke Takayanagi[1)], Kana Yamasaki[2, 3)], Koichi Miyazaki[1)], Futaro Ebina[1)], Keiji Kobashi[4, 5)], Takayuki Hashimoto[5)], Hidefumi Aoyama[4, 5, 6, 7)], Hiroki Shirato[5)], Kenji Chamoto[2, 8)]
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WS09-17-P

Integrative bioinformatics analysis reveals the role of CD276 in immune evasion and mutational landscape of breast cancer

◯ Luan Wen, Ben Chung-Lap Chan, Ping-Chung Leung, Chun-Kwok Wong
The Chinese University of Hong Kong

WS09-18-P

Analysis of immune response in mice inoculated with 9-(E,Z)HODE-treated E.G7-OVA cells

◯ Makoto Tsuiji, Akane Hirata, Ayane Okumura
Hoshi University

WS09-19-P

Impact of Exposure to Benzodiazepines on Adverse Effects and Efficacy of PD-1/PD-L1 Blockade in Patients With Non-Small Cell Lung Cancer

◯ Kiyoshi Takagaki[1, 2], Yoshiya Ohno[1], Taiichiro Otsuki[3, 4], Aki Kubota[3, 4, 5], Takashi Kijima[3, 4], Toshiyuki Tanaka[1]

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WS09-20-P

PD-L1 Blockade Induces Tumor-Specific Lethal Coagulopathy via IL-6–Mediated Thrombin Activation in mice

◯ Surabhi Raman, Takuma Oura, Tomonori Yaguchi, Tasuku Honjo, Kenji Chamoto

Kyoto University

WS09-21-P

FAAH Inhibition Enhances Efficacy of immune Checkpoint Blockade in tumor-bearing Aged Mice

◯ Chenyu Huo, Wen Li, Hirotake Tsukamoto

Kyoto University

WS09-22-P

Hyper-differentiation alters the immunogenicity of melanoma cells

◯ Yukie Ando, Sara Hatazawa, Momo Mataki, Riko Kumatabara, Mio Nakajima, Rikuto Sone, Akihiro Nakamura, Mieko Tokano, Tomonaga Ichikawa, Takashi Murakami, Yutaka Horiuchi

Saitama Medical University

December 10

WS10 Thymus and lymph nodes

WS10-01-O/P

Roles of TfR1-mediated iron homeostasis in the initiation of T-lineage program

◯ Yuichi Kama, Hiroyuki Hosokawa

Department of Immunology, Tokai University School of Medicine

WS10-02-O/P

CD69 regulates agonist TCR signaling

◯ Yukihiro Endo, Nanako Yasujima, Tatsuya Ueno, Taiyo Sasayama, Motoko Y. Kimura

Graduate School of Medicine, Chiba University

WS10-03-O/P

Regulation of TCR activation threshold by transcription factor SATB1

◯ Taku Naito, Marii Ise, Yuriko Tanaka, Shuhei Mashimo, Michitsune Arita, Taku Kuwabara, Motonari Kondo

Toho University School of Medicine

WS10-04-O/P

Unveiling kinase-transcription factor axis that couples invariant TCR signaling to iNKT cell generation

◯ Eri Ishikawa[1, 2], Sho Yamasaki[1, 2, 3, 4]

[1]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, [2]Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, [3]Center for Infectious Disease Education and Research (CiDER), The University of Osaka, [4]Center for Advanced Modalities and DDS (CAMaD), The University of Osaka

WS10-05-O/P

Characterization of a spontaneous severe combined immunodeficient strain of mice

◯ Masatsugu Oh-hora[1], Daisuke Motooka[2], Mio Narita[1], Norikazu Yabuta[3], Sho Yamasaki[3], Takehiko Yokomizo[4]

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WS10-06-O/P

Generation of human T/NK progenitor cells as a source of CAR-T/NK cell therapy

◯ Karin Noma

Tokyo University of Science

WS10-07-P

Thymic regeneration depending on age at exposure in the context of radiation induced mouse thymic lymphomagenesis

◯ Masaaki Sunaoshi[1)], Benjamin Blyth[2)], Yi Shang[1)], Chizuru Tsuruoka[1)], Takamitsu Morioka[1)], Mayumi Shinagawa[1)], Mari Ogawa[1)], Yoshiya Shimada[3)], Akira Tachibana[4)], Daisuke Iizuka[1)], Shizuko Kakinuma[1, 3)]

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WS10-08-P

Targeted Ablation of K14-Driven Thymic Epithelial Cells Disrupts Regeneration After Thymic Injury

◯ Martin Agbove, Tetteh Doris Narki, Hidetoshi Yamazaki

Mie University

WS10-09-P

Rat Thymic Medullary Fibroblasts Exhibit a More Differentiated Phenotype Compared to Mouse Counterparts

◯ Yasushi Sawanobori, Hisashi Ueta, Yusuke Kitazawa, Nobuko Tokuda

Anatomy, Dokkyo Medical University

WS10-10-O/P

Reconstruction of a lymph node-like structure by transplantation of a centrifuge-based bioengineered lymphatic tissue

◯ Shu Obana, Shoko Itakura, Makiya Nishikawa, Kosuke Kusamori

Faculty of Pharmaceutical Sciences, Tokyo University of Science

WS10-11-P

The role of talin1 binding to beta2 integrin in T cell migration and activation

◯ Yoshihiro Ueda, Naoyuki Kondo, Masanori Murayama, Yuji Kamioka, Tatsuo Kinashi

Kansai Medical University

WS10-12-P

Measuring and controlling immune cell adhesion by light

◯ Yuji Kamioka[1)], Tatsuo Kinashi[2)]

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WS10-13-P

Dectin-1+ resident cDC2 immediately presents lymph-borne soluble antigens to helper T cells in the lymph node DCP

◯ Madoka Ozawa, Tomoya Katakai

Niigata University Graduate School of Medical and Dental Sciences

WS10-14-P

Human artificial lymphoid tissues as a platform for studying human immune responses

◯ Yuka Kobayashi, Hiroshi Kawamoto, Takeshi Watanabe

Kyoto University, Institute for Life and Medical Sciences

December 10

WS11 Cytokines and Chemokines

WS11-01-O/P

IL-17A+ Treg cells are increased with age, and enhance accumulation of senescent cells in dermis

◯ Yuichiro Ogata[1)], Takaaki Yamada[1, 2, 3)], Yoshie Ishii[1, 2)], Masaru Arima[3)], Yohei Iwata[3)], Seiji Hasegawa[1, 3, 4)], Kazumitsu Sugiura[3)], Hirohiko Akamatsu[2)]

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WS11-02-P

Aging-related IL-18 production contributes to exacerbation of Th17-type airway inflammation

◯ Masakiyo Nakahira, Etsushi Kuroda

Department of Immunology, School of Medicine, Hyogo Medical University

WS11-03-O/P

The immunological crosstalk between IL-33+ ductal cells of von Ebner's glands and ILC2s orchestrates oral barrier function

◯ Satoshi Koga[1)], Kazuyo Moro[1, 2, 3)]

[1)]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2)]Laboratory for Innate Immune Systems, RIKEN-IMS, [3)]Laboratory for Innate Immune Systems, IFReC, The University of Osaka

WS11-04-P

Neuroprotective effects of the conditioned medium of human dental pulp stem cells against sciatic nerve crush injury in mice: recovering responses of neural cells

◯ Natsuki Yamaguchi, Miki Igarashi, Aruma Watanabe, Hideaki Hasegawa, Eri Horio, Yasuhiro Katahira, Satomi Miyakawa, Fumihiro Murakami, Shota Toda, Ning Qu, Izuru Mizoguchi, Takayuki Yoshimoto

Tokyo Medical University

WS11-05-P

A neuroprotective role of progranulin in the conditioned medium of human dental pulp stem cells for the therapeutic effect against diabetic peripheral neuropathy

◯ Eri Horio, Miki Igarashi, Yasuhiro Katahira, Natsuki Yamaguchi, Satomi Miyakawa, Fumihiro Murakami, Hiromitsu Anamizu, Shota Toda, Ning Qu, Izuru Mizoguchi, Takayuki Yoshimoto

Tokyo Medical University

WS11-06-P

Suppression of itch sensation by IL-27

◯ Daiji Sakata[1)], Yusuke Nomoto[2)], Masahiro Yamamoto[3)], Chisa Nakashima[4)], Kenji Kabashima[4)], Hiroki Yoshida[5)], Gyohei Egawa[2)], Takuro Kanekura[2)], Hiromitsu Hara[1)]

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WS11-07-P

Signaling crosstalk between IGBP and IGF-I signaling axis regulates osteoclast differentiation

◯ Takashi Izawa, Yusaku Hamada, Yuri Yoshikawa, Gohji Kozaki, Hiroshi Kamioka

Okayama University

WS11-08-P

Detection of Cytokine Storm-Responsive Cells in the Brain

◯ Mone Fushimi[1)], Hiroshi Takayanagi[1)], Michio Miyajima[2)]

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WS11-09-P

Withdrawn

WS11-10-O/P

Live FluoroSpot: Spatiotemporal Profiling of Cytokine Secretion at Single-Cell Resolution

◯ Zhuohao Yang[1)], Mai Yamagishi[2)], Nobutake Suzuki[1)], Takumi Adachi[3)], Koji Nagaoka[4)], Satoshi Yotsumoto[5)], Masato Tanaka[5)], Kazuyo Moro[6)], Kazuhiro Kakimi[4)], Takashi Kamatani[7)], Etsushi Kuroda[3)], Yoshitaka Shirasaki[1)]

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WS11-11-P

CCL3 and CCR5 interactions improve innate immune responses during septic peritonitis

◯ Yumi Kuninaka, Yuko Ishida, Mizuho Nosaka, Stefano Palumbi, Mariko Kawaguchi, Naofumi Mukaida, Toshikazu Kondo

Wakayama Medical University

WS11-12-P

The CCL9–CCR1 axis as an intrinsic regulatory pathway suppressing neuroinflammation in EAE

◯ Nozomi Sachi, Yomei Kagoshima, Supanuch Ekronarongchai, Masaaki Okamoto, Naganori Kamiyama, Takashi Kobayashi

Oita University

WS11-13-P

Pathophysiological Role of the CX3CL1-CX3CR1 Axis in Kidney Stone Formation and Dissolution

◯ Hisanobu Tosuji, Yuko Ishida, Yumi Kuninaka, Yuya Iwahashi, Naofumi Mukaida, Yasuo Kohjimoto, Toshikazu Kondo

Wakayama Medical University

WS11-14-P

Enhancement of fibrinolysis by bone marrow-derived CCR5-expressing macrophages in a murine deep vein thrombosis model

◯ Mizuho Nosaka, Yuko Ishida, Yumi Kuninaka, Akiko Ishigami, Hiroki Yamamoto, Akihiko Kimura, Stefano Palumbi, Naofumi Mukaida, Toshikazu Kondo

Department of Forensic Medicine, Wakayama Medical University

WS11-15-O/P

Reciprocal roles of interleukin-33 in a lipid nanoparticle-based mRNA vaccine-induced cytotoxic T cell and type 2 responses

◯ Kaiwen Liu[1, 2, 3], Kouji Kobiyama[1, 2, 3], Naoko Satoh-Takayama[4], Tomoya Hayashi[1, 2, 3], Burcu Temizoz[1, 2, 3], Hideo Negishi[1, 2, 3], Asuka Tobuse[1], Mai Onaga[1], Peter Katsikis[6], Cevayir Coban[2, 3, 5], Ken Ishii[1, 2, 3]

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WS11-16-O/P

Elucidation of the CNS Infiltration Mechanism in Acute Lymphoblastic Leukemia via IL-7R Signaling and Development of a Targeted Antibody–Drug Conjugate Therapy

◯ Motochika Hamada, Masahiro Yasunaga

National Cancer Center Exploratory Oncology Research & Clinical Trial Center

WS11-17-O/P

RNF213 promotes NF-κB-mediated inflammation via IL-6 amplifier in Moyamoya disease

◯ Shintaro Hojyo[1, 4, 7], Mitsutaka Yasuda[1, 2], Kaoru Murakami[1], Jing-Jing Jiang[1, 3], Yuki Tanaka[4], Hiroki Tanaka[1], Rie Hasebe[5], Takeshi Yamasaki[5], Ari Hashimoto[6], Tatsuya Atsumi[2], Shigeru Hashimoto[1], Masaaki Murakami[1, 4, 5, 7]

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WS11-18-O/P

Neutrophil-secreted IL-23 p19 monomer attenuates type 17 immunity

◯ Daiya Ohara[1], Kazuki Sakatoku[1], Hitomi Watanabe[1], Toshiaki Ohteki[2], Gen Kondoh[1], Keiji Hirota[1]

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WS11-19-P

TRAF5 Facilitates IgG2c Production in Obese Mice via CD40 Signaling in B cells

◯ Mari Hikosaka-Kuniishi[1], Yusuke Ozawa[1], Tomomi Wakaizumi[1], Ayaka Sato[1], Chieri Iwata[1], Tsutomu Wada[2], Toshiyasu Sasaoka[2], Masashi Morita[1], Takanori So[1]

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WS11-20-P

Arf1 negatively regulates inflammatory cytokine production via the MyD88 pathway

◯ Mami Sumiyoshi, Satoshi Matsuda

Kansai Medical University

WS11-21-P

The cytokine component Epstein-Barr virus-induced 3 (EBI3) is involved in splenomegaly induced by TLR7 stimulation

◯ Masanori Iseki[1], Yuma Sakamoto[1], Daiki Takezaki[1, 2], Yoshihiro Matsuda[1, 2], Mariko Inoue[3], Shin Morizane[2], Tomoyuki Mukai[1]

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WS11-22-P

Pretreatment with alendronate augments lipid A-induced IFN-β production via upregulation of cGAS expression by mouse macrophage-like cells

◯ Riyoko Tamai, Yusuke Kiyoura

Ohu University School of Dentistry

December 10

WS12 Innate inflammation and diseases

WS12-01-P

Analysis of hepatic stellate cells in MASH-prone and MASH-resistant mouse models

◯ Kana Goto[1)], Kaichi Kasai[1)], Yukihiro Furusawa[1)], Naoko Ohtani[2)], Yoshinori Nagai[1)]

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WS12-02-P

Impact of dietary cholic acid on pathological changes in type 2 diabetes and MASH

◯ Miyuna Kato[1)], Kaichi Kasai[1)], Yukihiro Furusawa[1)], Koichi Tsuneyama[2)], Yoshinori Nagai[1)]

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WS12-03-O/P

Therapeutic Modulation of GLP-1 Restores Mucosal Immunity during diet-modulated colits

◯ Leonie Brockmann[1, 3)], Carlotta Ronda[2)], Harris Wang[3)]

[1)]Keio University Human Biology- Microbiome- Quantum Research Center (Bio2Q), [2)]UC Berkley Innovative Genomics Institute, [3)]Columbia University

WS12-04-O/P

Production of artificial gut microbiota for transplantation with an IgA antibody

◯ Kengo Sasaki, Keishu Takahashi, Ryutaro Tamano, Genta Furuya, Naoki Morita, Peng Gao, Reiko Shinkura

The University of Tokyo

WS12-05-P

Specific microRNAs regulate inflammation during immunosenescence: potential therapeutic candidates against inflammaging

◯ Yangming Sheng, Atsushi Irie, Jinyu Zhao, Hiroyuki Oshiumi

Dep Immunol, Grad Sch Med Sci, Kumamoto University

WS12-06-P

The effect of age on the bilateral character of CB2-mediated inflammatory regulation

◯ Haruka Hosoki[1)], Toru Asahi[1, 2)], Chihiro Nozaki[3)]

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WS12-07-O/P

Pattern Recognition Receptors in Syncytiotrophoblast: Roles in Antiviral Defense and Pregnancy Complications

◯ Kenichiro Motomura[1, 2, 3, 4)], Hiromichi Yamamoto[2, 5)], Masato Tamari[2)], Naoko Nagano[2)], Yuka Hayashi[2)], Hideaki Morita[2, 6)], Hironori Takahashi[5)], Seiji Wada[4)], Hiromi Komiya[7)], Hirohisa Saito[2)], Kenji Matsumoto[2)]

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WS12-08-P

Immunomodulatory and anti-viral activity of herbal formula Kwan Du Bu Fei Dang on COVID-19 infection

◯ Yin Tung Lai[1)], Chun Kwok Wong[1, 2)]

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WS12-09-O/P

Tetratricopeptide repeat and ankyrin repeat containing 1 (Trank1) regulates chemokine expression during infection and is implicated in the pathogenesis of psychiatric disorders

◯ Takahisa Kouwaki, Hiroyuki Oshiumi

Kumamoto University

WS12-10-P

Analysis of CARD9 function against cariogenic bacterium infection

◯ Aoba Iwanuma[1, 2)], Kenji Toyonaga[1, 3)], Jun-ichi Nagao[1, 3)], Satoru Iwai[1)], Sari Kishikawa[1, 3)], Kyoko Oka[2, 3)], Yoshihiko Tanaka[1, 3)]

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WS12-11-O/P

Virus-induced CD5L/AIM reprograms innate immunity to enable concurrent viral clearance and tissue repair during acute influenza infection

◯ Satoko Arai, Toru Miyazaki
The Insitute for AIM Medicine

WS12-12-P

Engineered Reporter Cell Lines to Evaluate Immunogenicity of RNA Therapeutics

◯ Xiaobing Li, Jasper Ho, Cedar Lin
InvivoGen

WS12-13-O/P

Investigation of innate immune responses in Rhinolophus bats in vivo

◯ Kaoru Usui[1)], Ziyi Guo[1)], Shigeru Fujita[1)], Alfredo Hinay[1)], Yukie Kashima[2)], Yutaka Suzuki[2)], Jumpei Ito[1)], Kei Sato[1)]
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WS12-14-P

Dual monoclonal antibody treatment synergistically attenuates TLR-4 driven inflammatory responses in LPS-stimulated Kupffer cells

◯ Bristy Basak, Masanori Inui, Tatsuya Yamazaki, Susumu Tomono, Sachiko Akashi-Takamura
Aichi Medical University

WS12-15-O/P

Dissecting the complex inflammatory response in pyrin-associated autoinflammatory diseases

◯ Yoshitaka Honda[1)], Naoya Iwata[2)], Yoshihiko Kuchitsu[3)], Atsushi Hijikata[4)], Hirofumi Shibata[2)], Kazushi Izawa[2)], Tomohiko Taguchi[3)], Hideki Ueno[1, 5)], Takahiro Yasumi[2, 6)]
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WS12-16-O/P

HUMAN DBR1 IS A BRAINSTEM GATE-KEEPER OF IMMUNITY TO A BROAD RANGE OF VIRUSES

◯ Koji Nakajima[1, 2, 3)], Yi-Hao Chan[4)], Danyel Lee[1, 2, 3)], Noopur Khobrekar[5)], Oliver Harschnitz[6)], Lorenz Studer[5)], Jean-Laurent Casanova[1, 2, 3, 7, 8)], Shen-Ying Zhang[1, 2, 3)]
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WS12-17-P

Validation of antibody specificities targeting the leukocyte immunoglobulin-like receptor family

◯ Hiromu Tanimoto[1)], Kouyuki Hirayasu[1, 2)], Rikinari Hanayama[1, 3)]
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WS12-18-P

Annexin A1 regulates bone homeostasis and offers yherapeutic potential for osteoporosis

◯ Hend Terukawa, Alaa Terukawa, Norimasa Iwasaki
Hokkaido University

December 10

WS13 B cell maturation, plasma cell differentiation and function

WS13-01-O/P

In vitro induction of human germinal centre B-cells

◯ David Priest[1)], Wataru Ise[2, 3)], James Wing[1, 3, 4)]
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WS13-02-P

Arf1 regulates B cell survival and germinal center formation

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WS13-03-P

T cell help promotes reentry of rare memory B cells into germinal centers and contributes to generation of anti-influenza broadly neutralizing antibodies

◯ Yang Xue[1, 2)], Yuki Tai[1, 3)], Daiki Mori[3)], Kaori Sakai[4)], Takuya Miyazaki[4)], Mikito Owa[4)], Kohei Kometani[5)], Isao Ebina[4, 6)], Ryusuke Omiya[4, 6)], Kunihiro Hattori[4, 6)], Wataru Ise[3)], Ryo Shinnakasu[7)]

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WS13-04-O/P

Somatic hypermutation generates autoreactive B cells without autoreactive T cell help

◯ Wataru Okada, Daisuke Fujimori, Sawa Ishii, Wakana Takahashi, Miya Yoshino, Koji Tokoyoda

Tottori University

WS13-05-P

STAP-1 is required for pathogenesis of Systemic Lupus Erythematosus by regulating GC formation

◯ Shoya Kawahara[1)], Jun-ichi Kashiwakura[2)], Kenji Oritani[3)], Tadashi Matsuda[1)]

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WS13-06-P

Protein kinase D orchestrates the balance between IgG1 and IgE production

◯ Airi Shibata[1)], Kazuhiko Kawata[1)], Keisuke Imabayashi[1)], Eri Ishikawa[2)], Tomoharu Yasuda[3)], Sho Yamasaki[2)], Yoshihiro Baba[1)]

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WS13-07-O/P

Regulation of selective class-switching provides long term therapeutic benefits for hay fever

◯ Naoki Morita[1)], Takahiro Nagatake[3)], Takenori Inomata[6)], Takahiro Adachi[2)], Yasuhiro Yamada[4)], Manabu Sugai[7)], Keiichi I. Nakayama[8)], Hirotatsu Kojima[5)], Reiko Shinkura[1)]

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WS13-08-P

Humanized BCR mice represent a novel in vivo platform as an alternative to conventional humanized mice

◯ Rinka Ito[1)], Yutaro Yada[1)], Yasuhiro Kazuki[2)], Yoshihiro Baba[1)]

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WS13-09-O/P

Local antigen-dependent generation of plasma cells in bone marrow

◯ Toshiro Hirai[1, 2, 3, 4)], Yasuo Yoshioka[1, 2, 3, 4, 5)]

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WS13-10-O/P

Induction of Metal-Responsive Genes by LLPC-Associated Survival Cytokines in Plasma Cells

◯ Ari Itoh-Nakadai[1)], Maiko Kobayashi[1)], Masayuki Shirota[3)], Ryo Funayama[4)], Yasuhiro Yoshida[5)], Keiko Nakayama[4)], Toshiyuki Takai[2)]

[1)]Department of Hygiene and public Health, Nippon Medical School, [2)]Department of Experimental Immunology, IDAC, Tohoku University, [3)]Department of AI and Innovative Medicine, UCARTM, Tohoku University Graduate School of Medicine, [4)]Department of Cell Proliferation, UCARTM, Tohoku University Graduate School of Medicine, [5)]Department of Immunology and Parasitology, School of Medicine, University of Occupational and Environmental Health, Japan

WS13-11-P

PTEN deficiency accelerates regulatory plasma cell differentiation via sensitizing IL-5/STAT5 axis

◯ Yu-Wen Su, Hsin-Hsin Chen, Ya-Fang Shih, Ming-Yu Chen, Pei-Ju Tsai, Mai Trinh Tang Nguyen
National Health Research Institutes

WS13-12-P

A trans-omics approach reveals metabolic reprogramming in antibody-producing cells induced by type I IFN and TLR9

◯ Ayana Shinomiya[1)], Yukiko Iwasaki[2)], Junichi Maruyama[2)], Qiuan Zhu[2)], Katusyuki Yugi[2)]
[1)]RIKEN/Keio University, [2)]RIKEN

WS13-13-O/P

Autoreactivity, NETosis, and Fibrosis: Functional Implications of MZB1$^+$ Plasma Cells in Skin Disease

◯ Akitaka Hata, Takayoshi Komatsu-Fujii, Du Yaxin, Toshiaki Kogame, Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

WS13-14-O/P

Differential BCR signaling and antigen presentation activity in IgG B cells contribute to positive selection into bone marrow IgG over IgM plasma cells

◯ Yuki Tai[1, 2)], Takuya Koike[2, 3)], Wataru Ise[1)], Tomohiro Kurosaki[2, 4)]
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WS13-15-P

Involvement of autoantibodies in streptozotocin-induced type 1 diabetes mouse model

◯ Kenta Ueda, Mari Tenno, Daisuke Kitamura
Research Institute for Biomedical Sciences, Tokyo University of Science

December 10

WS14 Tolerance and Immune suppression

WS14-01-O/P

Antigen-Specific Tolerance by mRNA for Therapeutic Applications

◯ Shota Imai, Tomoyoshi Yamano, Rikinari Hanayama
Department of Immunology, Graduate School of Medical Sciences, Kanazawa University

WS14-02-O/P

Cholesterol sulfate prevents maternal–fetal conflict by locally modulating immune reactivity

◯ Kazufumi Kunimura[1)], Kenichiro Hirotani[2)], Yuki Sugiura[3)], Yoshihiro Izumi[4)], Kenji Morino[1)], Takeshi Iwasaki[5)], Kanjiro Miyata[6)], Takeshi Mori[7)], Yasuyuki Ohkawa[8)], Yoshinao Oda[5)], Kiyoko Kato[2)], Yoshinori Fukui[1)]
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WS14-03-O/P

The regulatory role of neonatal thymic microenvironment in the onset of autoimmunity

◯ Shigefumi Matsuzawa[1, 2)], Aya Ushio[1, 3)], Ruka Nagao[1)], Kunihiro Otsuka[1)], Takaaki Tsunematsu[1)], Naozumi Ishimaru[1, 3)]
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WS14-04-O/P

Aryl hydrocarbon receptor agonists-loaded nanoparticles induce antigen-specific immune tolerance via regulatory B cells

◯ Takanatsu Hosokawa[1)], Takuro Yamada[1)], Yoshihiro Baba[2)], Takeshi Mori[1)]
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WS14-05-O/P

PD-1 suppresses inflammatory responses elicited by de novo genome mutagenesis in mice

◯ Yoshiya Kakimoto[1)], Ilamangai Nagaretnam [1)], Fuka Takeuchi[2)], Toshiaki Shigeoka[1)], Akihiko Ito[2)], Yasumasa Ishida[1)]
[1)]Nara Institute of Science and Technology, [2)]Kindai University Faculty of Medicine

WS14-06-O/P

Orally induced tolerance to skin immunization is mediated by mesenteric lymph node-derived Th cells via an integrin α4β7-dependent mechanism

◯ Arisa Akagi[1)], Rintaro Shibuya[2)], Sho Hanakawa[3)], Akihiko Kitoh[1)], Kenji Kabashima[1, 3)]

[1)]Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [2)]Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York City, NY, United States, [3)]Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Republic of Singapore

WS14-07-O/P

The role of antigen specificity in tissue Treg phenotypes and functions

◯ Moeri Tsubaru, Yoshimichi Hoshiya, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS14-08-P

Differences in molecular recognition of agonistic antibodies to the immune checkpoint receptor BTLA

◯ Shogo Takekawa[1)], Daigo Sato[1)], Miki Iwamori[1)], Shiori Ito[1)], Tian Cong[1)], Shunsuke Kita[1)], Chris Paluch[2)], Simon Davis[2)], Katsumi Maenaka[1, 3, 4, 5, 6)], Kimiko Kuroki[1)]

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WS14-09-P

Molecular characteristics of a novel HLA-G2 form for therapeutic applications

◯ Ryota Yamamoto, Hiroshi Watanabe, Chisato Yamada, Haruki Matsubara , Kimiko Kuroki, Katsumi Maenaka

Hokkaido Univ.

WS14-10-P

Responses of CD8$^+$ T cells in a mouse model of autoimmune induction

◯ Aya Fukui-Miyazaki, Akihiro Ishizu, Utano Tomaru

Hokkaido University

WS14-11-P

High-Plex Spatial Analysis of T Cell Exhaustion Using Imaging Mass Cytometry for Immuno-Oncology Studies

◯ Chewei Hu[1)], Thomas D. Pfister[2)], Jyh Yun Chwee[2)], Qanber Raza[2)], Nikesh Parsotam[2)], David Howell[3)], Liang Lim[2)], Christina Loh[2)]

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WS14-12-P

The Role of Tyrosine Phosphatase CD45 in Age-induced Immune Suppression

◯ Sara Delghandi, Tomonori Yaguchi, Ken Matsumoto, Toshihiko Ogura, Kenji Chamoto

Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS14-13-P

Benign and harmful autoimmunity via manipulating the binding stability of self-peptides that control the kinetics of tissue antigen-specific effector regulatory T cells through modulating TCR signaling

◯ Youwei Lin[1, 2)], Takashi Yamamura[2)]

[1)]Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, [2)]Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry

WS14-14-P

Mechanistic analysis of donor-derived iPSC-induced spontaneous immune tolerance

◯ Tomoki Kamatani, Ken-ichiro Seino

Division of Immunobiology, Institute for Genetic Medicine, Hokkaido University

December 11

WS15 Tissue-specific T cell biology: Organ-dependent Functions and Diseases

WS15-01-O/P

Pathological analysis of tissue resident memory T Cells in inflammatory bowel disease

◯ Naohiko Kinoshita, Mari Murakami, Kiyoshi Takeda

The University of Osaka

WS15-02-O/P

Hepatic leukemia factor directs tissue residency of proinflammatory CD4+ T cells

◯ Masahiro Kiuchi[1)], Masahiro Nemoto[1)], Hiroyuki Yagyu[1)], Chiaki Iwamura[1, 2)], Hikaru Sugimoto[3)], Yuki Masuo[4)], Kanae Ohishi[1)], Eiryo Kawakami[3)], Hideki Ueno[4)], Damon J Tumes[5)], Toshinori Nakayama[1, 6)], Kiyoshi Hirahara[1, 2, 6)]

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WS15-03-O/P

CD69 regulates the tissue dynamics of epigenetically imprinted memory CD4+ T cells

◯ Chiaki Iwamura[1, 2)], Rui Hirasawa[1)], Kiyoshi Hirahara[1, 2)]

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WS15-04-O/P

Withdrawn

WS15-05-O/P

Identification of a novel subset of lung tissue-resident memory T cells that supports long-lasting local immunity

◯ Kosuke Kitahata[1)], Diego Diez[2)], Shiki Takamura[1)]

[1)]RIKEN Center for Integrative Medical Sciences, [2)]The University of Osaka

WS15-06-O/P

Interplay of IL-10 producing CD4+ T cells and macrophages regulates tissue regeneration following influenza virus infection

◯ Hui Li, Hiroyuki Kondo, Koji Yasutomo

Tokushima University

WS15-07-O/P

Mechanisms Mediating Synovial Resident Memory T Cell Persistence in Rheumatoid Arthritis

◯ Yusuke Miyashita[1, 2)], Yang Yang[1)], Madison Mangin[1)], Maryrose Hahn[1)], Kimitoshi Nakamura[2)], Margaret Chang[1)]

[1)]Boston Children's Hospital, [2)]Kumamoto University Hospital

WS15-08-O/P

Roles of bone marrow memory CD4 T cells in vivo

◯ Sano Nagano, Akiho Idehara, Koji Tokoyoda

Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan

WS15-09-O/P

Genetic Deletion of CCR4 Accelerates Early-Stage Atherosclerosis in Mice

◯ Aga Krisnanda[1)], Kazuhiko Matsuo[3)], Takashi Nakayama[3)], Naoto Sasaki[1, 2)]

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WS15-10-O/P

Human precursor T follicular regulatory cells are primed for differentiation into mature Tfr and disrupted during severe infections

◯ James Wing[1, 3, 6)], Janyerkye Tulyeu[1)], Jonas Søndergaard[1)], David Priest [1, 6)], Takeshi Ebihara[2)], Hisatake Matsumoto[2)], Mara Llamas-Covarrubias[6)], Akimichi Morita[5)], Sayuri Yamazaki[4)], Shimon Sakaguchi[7)]

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WS15-11-P

Lymphopenia-induced CD4+ T-cell proliferation exacerbates skin inflammation triggered by commensal skin fungi

◯ Mami I. Mamiya[1, 2)], Yuji Nishimura[2)], Gyohei Egawa[1)], Akihiko Kitoh[1)], Hiroshi Kawamoto[2)], Kenji Kabashima[1)]

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WS15-12-O/P

Increased γδT cells in the brain produced IL-17 and exacerbate the pathogenesis of sepsis-induced anxiety in mice

◯ Masafumi Saito[1)], Naoki Moriyama[2)], Yuko Ono[3)], Joji Kotani[3)], Manabu Kinoshita[1)]

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WS15-13-O/P

Circulating, innate Th1-like memory-phenotype CD4+ T cells rapidly accumulate in ischemic organs to exacerbate tissue injury via neutrophil orchestration

◯ Kosuke Sato[1, 2)], Akihisa Kawajiri[1)], Jing Li[1)], Ziying Yang[1)], Ryoji Mitsuwaka[1)], Shunichi Tayama[1)], Kenshiro Matsuda[3)], Chigusa Nakahashi-Oda[3)], Akira Shibuya[3)], Motoshi Wada[2)], Naoto Ishii[1)], Takeshi Kawabe[1, 4)]

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WS15-14-O/P

Characterization of CD20-expressing CD4+ T cells in autoimmune neuroinflammation

◯ Masanobu Tanemoto[1, 2)], Ippei Ikegami[1)], Taiki Sugaya[1, 3)], Ken-Ichi Takano[3)], Shin Hisahara[2)], Shingo Ichimiya[1)]

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WS15-15-O/P

Spermidine Impairs Mitochondrial Function in Senescent-Like CD8$^+$ T Cells via FAO-Driven ROS

◯ Jun Wang, Yasuharu Haku, Aprilia Maharani, Tomonori Yaguchi, Kenji Chamoto

Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS15-16-O/P

Novel Integrated Workflow for Simultaneous Analysis of Antigen-Specific T-Cells and B-Cells

◯ Nayeema Nushrat [1, 2)], David Priest[1)], Takashi Toya[3)], Ayumi Taguchi[4, 5)], James Badger Wing[1, 2, 4)]

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WS15-17-O/P

Clonally Expanded CD8+ T Cells Actively Shape Alzheimer's Disease Pathology Through Dynamic Functional Transitions

◯ Masaki Ohyagi[1, 2)], Minako Ito[3)], Mana Iizuka-Koga[1)], Setsuko Mise-Omata[1)], Akihiko Yoshimura[1)]

[1)]Tokyo University of Science, [2)]Institute of Science Tokyo, [3)]Kyushu University

WS15-18-O/P

Lipolysis-microlipophagy cascade regulated by adipose triglyceride lipase drives pathogenic adaptive type 2 immunity

◯ Atsushi Sasaki[1, 2, 3)], Hiroyuki Yagyu[1, 4)], Masahiro Kiuchi[1)], Chiaki Iwamura[1)], Takahiro Arano[1)], Kanae Ohishi[1)], Shigenori Baba[1)], Kiyoshi Hirahara[1, 3)]

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WS15-19-O/P

Flexible and Comprehensive Phenotyping of Tumor and Peripheral Blood Mononuclear Cells in Endometrial Carcinoma

◯ Naoto Fujioka[1)], Anita Kant[2)], Deeqa Mahamed[2)], Geneve Awong[2)], Gary Impey[2)]

[1)]Standard BioTools K.K., [2)]Standard BioTools Inc.

WS15-20-O/P

Analysis of T Cells in Amyotrophic Lateral Sclerosis

◯ Yoshihiro Harada, Mio Kawazoe, Ako Matsui, Minako Ito

Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University

WS15-21-O/P

Sleep Deprivation Alters Brain Immune Landscape with Adaptive Immune Cell Infiltration and Neuronal Gene Signatures

◯ Haruka Takeda

University of Tsukuba

WS15-22-O/P

Identification and characterization of neonatal liver-resident T cells

◯ Yuta Iijima[1, 2)], Ichita Hasegawa[1)], Shunka Kano[1)], Yukihiro Endo[1)], Ryo Nasu[1)], Hiromichi Hamada[2)], Motoko Kimura[1)]

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WS16 Tumor Immunity - Antigens and receptors

WS16-01-P

Targeting CTA-01 as a Pan-Cancer and Pan-HLA Antigen for Immunotherapy

◯ Jason Wong Keen Sheng[1, 2)], Justin Low Jun Ting[1)], Thamizhanban Manoharan[1)], Dawn Sijin Nin[4, 5)], Ziliang Ma[1, 3)], Lih-Wen Deng[4, 5, 6)], Wei Wu[1, 2, 3)]

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WS16-02-O/P

Pushing the limits of neoantigen discovery in low tumour mutational burden cancers by synergising with targeted protein degradation and noncanonical translation

◯ Wei Wu[1, 2)], Ilisia Ow[1, 2)], Ruojing Lu[1, 2)], Justin Jun Ting Low[1)], Wei Jin Amanda Crystal Lee[1)]

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WS16-03-P

Phenotypic characterization of neoantigen-specific cytotoxic CD4+ T cells

◯ Serina Tokita[1)], Minami Fusagawa[2)], Kenji Murata[2)], Toshihiko Torigoe[2)], Yoshihiko Hirohashi[2)], Takayuki Kanaseki[1)]

[1)]Niigata University, [2)]Sapporo Medical University

WS16-04-P

Dynamics of CD8$^+$ T cells revealed by single-cell analysis in a patient with metastatic renal cell carcinoma who achieved a complete response to ICI therapy

◯ Yudai Funakoshi, Soki Kashima, Ryuta Sobu, Yuya Sekine, Hiromi Sato, Mizuki Kobayashi, Ryohei Yamamoto, Mitsuru Saito, Shintaro Narita, Tomonori Habuchi

Akita University Graduate School of Medicine, Department of Urology

WS16-05-O/P

Crucial Role of IFN-γ-Induced MHC Class II on Tumor Cells in Antitumor Immunity Elicited by an mRNA Cancer Vaccine

◯ Mahiro Shibata[1, 2)], Hui Jin[1)], Hisashi Arase[1, 2)]

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WS16-06-O/P

HANG-Vax potently maximize the efficacy of TCR-T therapy, leading to the cure of immunotherapy-resistant solid tumors and long-term prevention of recurrence

◯ Fumiyasu Momose[1)], Makiko Yamane[1)], Junko Nakamura[1)], Linan Wang[1)], Keiki Nagaharu[2)], Kohei Yabuuchi[3)], Shogo Aso[3)], Takero Kurosawa[3, 4)], Toru Katsumata[3)], Tsuyoshi Shimoboji[3)], Takashi Nakai[3, 4)], Yoshihiro Miyahara[1)]

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WS16-07-O/P

Peptide immunotherapy targeting FAP augments anti-tumor responses

◯ Keiko Udaka[1)], Toshihiro Komatsu[1)], Kaoru Furihata[2)], Yuki Tanaka[4)], Kohsuke Onoue[4)], Kazuhide Onoguchi[4)], Yoshiko Yamashita[4)], Kanae Kubota[3)], Naoki Sakaguchi[5)]

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WS16-08-O/P

HBI-8000, a histone deacetylase inhibitor, reprograms CD8$^+$ T cell differentiation and enhances PD-1 blockade efficacy

◯ Mohamed A. Soltan[1)], Tomonori Yaguchi[1, 2)], Tasuku Honjo[1)], Kenji Chamoto[1, 2)]

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WS16-09-P

NF-Y cooperates with NLRC5 to transactivate MHC class I genes via dual promoter binding motifs

◯ Zufang Wu[1)], Yusuke Kasuga[1, 3)], Tsutomu Tanaka[1, 3)], Koichi Kobayashi[1, 2, 3)]

[1)]Department of Immunology, Hokkaido University Graduate School of Medicine, [2)]Department of Microbial Pathogenesis and Immunology, Texas A&M University, [3)]Hokkaido University Institute for Vaccine Research and Development

WS16-10-O/P

Synergic induction of MHC-I expression by cooperation of IRF1 and NLRC5

◯ Tsutomu Tanaka[1, 2)], Torsten Meissner[3, 4)], Saptha Vijayan[5)], Kyoung-Hee Lee[3, 4)], Yuen-Joyce Liu[3)], Isaac Downs[5)], Jason Yeung[5)], Koichi Kobayashi[1, 2, 5)]

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WS16-11-O/P

IFN-γ stimulation upregulates HLA-F cell surface expression that regulates tumor progression in colon cancers

◯ Noriko Ouji-Sageshima, Atsushi Hara, Kaito Yasuike, Hinata Wade, Ryutaro Furukawa, Masahiro Kitabatake, Toshihiro Ito

Department of Immunology, Nara Medical University

WS16-12-P

Targeting The Aberrant Epigenetic Status in Cancer to Improve the MHC-I-Dependent Immune Response

◯ Alaa Ahmad[1)], Tsutomu Tanaka[1, 2)], An Ning[1)], Xin Sun[1)], Ryota Ouda[1)], Koichi S. Kobayashi[1, 2, 3)]

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WS16-13-P

Spatial Immunogenomics of Tertiary Lymphoid Structures: Integrating Cell-State Ecology and Ligand–Receptor Networks

◯ Ange Yan, Tatsuhiko Tsunoda, Artem Lysenko

The University of Tokyo

WS16-14-P

Single-cell multiomics analysis to investigate the diverse mutation patterns of tumor–immune interactions

◯ Tadashi Imafuku[1)], Kyohei Matsumoto[1)], Shigeyuki Shichino[2)], Manabu Kawai[1)], Yoichiro Nakatani[3)], Shinichi Hashimoto[1)]

[1)]Wakayama Medical University, [2)]Tokyo University of Science, [3)]The University of Osaka

WS16-15-P

Maintenance of Tumor-Specific CTLs in Artificial Lymphoid Tissue

◯ Ryota Kaitani, Yuka Kobayashi, Takeshi Watanabe, Hiroshi Kawamoto

Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University

WS16-16-P

Molecular imaging reveals BiTE mediated T cell activation mimics antigen recognition of TCR

◯ Arata Takeuchi, Shun Moriya, Hitoshi Nishijima, Hiroaki Machiyama, Shuto Sebata, Ei Wakamatsu, Tadashi Yokosuka

Tokyo Medical University

WS16-17-P

Functional analysis of novel anti-HLA-G monoclonal antibodies

◯ Yuhi Kuriki[1)], Yoji Mori[1)], Sakie Shimokakimoto[1)], Kazuma Hikichi[1)], Naruki Akaiwa[1)], Atsushi Furukawa[1, 2)], Naoyoshi Maeda[1, 3)], Kimiko kuroki[1)], Katsumi Maenaka[1, 4, 5, 6)]

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WS16-18-P

A Novel Approach to Excipient Selection in Biopharmaceutical Formulations

◯ Toshio Ariyasu[1, 2, 3)], Masahiro Otao[1, 2)], Shoji Kakuta[1, 3)], Shuichi Hirose[1, 2)]

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WS17 Allergy (I): Orchestrating the Cellular Symphony

WS17-01-O/P

Enhanced STAT6 signaling promotes age-dependent spontaneous mixed granulocytic lung inflammation

◯ Naoko Nagano[1)], Masato Tamari[1)], Hiromichi Yamamoto[1)], Hisataka Nakazaki[1)], Satoshi Fujita[1)], Yuka Hayashi[1)], Kenichiro Motomura[1, 2, 3)], Shuji Takada[4)], Susumu Nakae[5)], Hirohisa Saito[1)], Kenji Matsumoto[1)], Hideaki Morita[1, 6)]

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WS17-02-O/P

FoxO1 regulates peripheral basophil abundance and allergic inflammation

◯ Kensuke Miyake, Junya Ito, Xintong Chen, Hajime Karasuyama

Institute of Integrated Research, Institute of Science Tokyo

WS17-03-O/P

Differences in Steroid Responsiveness across Mouse Strains in Type 2 Allergic Airway Inflammation

◯ Hyunsoo Kim, Yong Woo Jung

College of Pharmacy, Korea University

WS17-04-O/P

IL-33–mediated innate responses trigger sneezing independent of IgE in allergic rhinitis

◯ Huiyang Li[1)], Yasutaka Motomura[1, 4)], Kazuyo Moro[1, 2, 3)]

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WS17-05-O/P

Involvement of the Unfolded Protein Response in the Mast Cell-dependent allergic responses in vivo and in vitro

◯ Hiroto Kouda, Kazuki Nagata, Chiharu Nishiyama

Department of Biological Science and Technology, Tokyo University of Science

WS17-06-O/P

CCR4-NOT complex–mediated mRNA decay preserves ILC2 identity and function during allergic inflammation

◯ Megumi Tatematsu[1, 2)], Akene Fuchimukai[1, 2)], Shunsuke Takasuga[1, 2)], Takashi Ebihara[1, 2, 3)]

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WS17-07-O/P

Spontaneously produced IgE attenuates passive cutaneous anaphylaxis

◯ Akihiko Kitoh[1)], Rintaro Shibuya[2)], Sho Hanakawa[3)], Kenji Kabashima[1, 3)]

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WS17-08-O/P

Mast cell–monocyte interaction regulates macrophage differentiation and allergic inflammation

◯ Yuka Nagata, Shiori Murakami, Atsushi Furukawa, Ryo Suzuki

Division of Pharmaceutical Sciences Institute of Medical, Pharmaceutical, and Health Science Kanazawa University

WS17-09-P

Suppression of adipocyte differentiation by mast cells through extracellular trap-like factors

◯ Risa Akita, Shunki Ehara, Yusuke Nakanishi, Kyoko Takahashi

College of Bioresource Sciences, Nihon University

WS17-10-P

Stress-Induced Neutrophilic Inflammation Aggravates Allergen-Driven Asthma

◯ Kakeru Takenobu, Tomoaki Takao, Takeru Sakaue, Minako Ito

Kyushu University

WS17-11-P

Investigation of IgE-independent mechanisms in the development of allergic conjunctivitis

◯ Miharu Kawashima, Miyoko Matsushima, Shino Ando, Yuzuki Matsuda, Miki Oguri, Hiyori Takano, Tsutomu Kawabe

Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System

WS17-12-P

Basic analysis of symptom-relevant IgE epitopes in milk protein

◯ Hiyori Takano, Miyoko Matsushima, Shino Ando, Yuzuki Matsuda, Miki Oguri, Miharu Kawashima, Tsutomu Kawabe
Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System

WS17-13-P

Regulatory Role of Endogenous Zinc in the Onset and Progression of Food Allergy Pathogenesis

◯ Taiga Yunoue[1)], Rin Mizumura[2)], Rinya Asako[2)], Teruhisa Kawakami[2)], Junya Ohtake[3, 4)], Sachi Tanaka[5, 6)], Hidemitsu Kitamura[1, 2, 3, 4)]
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WS17-14-P

Roles of ILC2 in lung tissue repair after injury mediated by protease allergens

◯ Mirei Matsumoto, Susumu Nakae, Masashi Ikutani
Hiroshima University

WS17-15-P

Highly purified mesenchymal stem cells suppress food allergy by inhibiting mast cell degranulation

◯ Sora Osakada[1)], Rintaro Yoshikawa[1)], Takashi Suyama[2)], Hiromi Miyauchi[2)], Yumi Matsuzaki[1, 2)]
[1)]Shimane University , Faculty of Medicine, [2)]PuREC Co., Ltd.

WS17-16-P

Ambient particulate matter induces lysosomal membrane permeabilization and cytotoxic effects

◯ Tomohiro Ishihara, Atsushi Furukawa, Yuka Nagata, Ryo Suzuki
Faculty of Pharmaceutial Science, Institute of Medical, Pharmaceutical and Health Science, Kanazawa University

WS17-17-P

Neutrophil-expressed Ly6G modulates allergic responses via mast cell-neutrophil interaction

◯ Ami Igarashi, Yuka Nagata, Atsushi Furukawa, Ryo Suzuki
Faculty of Pharmaceutical Sciences, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University

WS17-18-P

Application of MHC-density assay for the detection of HLA/drug interaction

◯ Hiroko Miyadera
University of Tsukuba

December 11

WS18 Organ-specific Immune Diseases

WS18-01-P

CARS2-dependent supersulfide metabolism exacerbates mouse model of multiple sclerosis by enhancing IFN-γ+ Th17 accumulation via promoting Il23p19 expression in dendritic cells

◯ Ryoji Mitsuwaka[1)], Yuya Kitamura[1)], Kyoga Hiraide[1)], Hibiki Suzuki[1)], Shunichi Tayama[1)], Jing Li[1)], Ziying Yang[1)], Kosuke Sato[1)], Yuko Okuyama[1)], Takeshi Kawabe[1)], Takaaki Akaike[2)], Naoto Ishii[1)]
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WS18-02-P

Autoimmune neuroinflammation is controlled by the influence of the microbiome on pathogenic Th cell responses in a model of secondary progressive multiple sclerosis

◯ Ben Raveney[1, 2)], Daiki Takewaki[1)], Wataru Suda[2)], Takashi Yamamura[1)]
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WS18-03-P

STAP-1-derived peptide suppresses TCR-mediated T cell activation and ameliorates autoimmune diseases by inhibiting STAP-1/LCK binding

◯ Takumi Sato, Yuto Sasaki, Shoya Kawahara, Tadashi Matsuda
Hokkaido University

WS18-04-O/P

Helios-Dependent Chromatin Remodeling Drives IFN-α–Responsive Plasma Cell Differentiation in NMOSD Naïve B Cells

◯ Shuhei Sano, Daisuke Noto, Yasunobu Hoshino, Yuji Tomizawa, Kazumasa Yokoyama, Nobutaka Hattori , Sachiko Miyake
Juntendo University

WS18-05-P

A series of CD21lo B cell subsets and peripheral helper T cells are recruited to the central nervous system in acute neuromyelitis optica

◯ Ryusei Nishigori[1, 2], Mio Hamatani[3], Hiroyuki Yoshitomi[2, 3], Kimitoshi Kimura[1], Masaki Takata[1, 2], Shinji Ashida[4], Chihiro Fujii[5], Hirofumi Ochi[6], Ryosuke Takahashi[1, 7], Takayuki Kondo[5], Hideki Ueno[2, 3, 8]

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WS18-06-O/P

CXCR5 regulates disease susceptibility and activity in primary biliary cholangitis (PBC)

◯ Yuki Hitomi[1, 2], Yoshihiro Aiba[3], Kazuyoshi Ishigaki[4, 5], Minoru Nakamura[3, 6, 7]

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WS18-07-P

Analysis of diseases caused by high expression of the endosomal regulatory molecule RIN3 in CD11c-positive cells

◯ Yoshiko Saitoh (Mori)[1], Daisuke Aki[1], Yukihisa Tanaka[2], Jumpei Taguchi[3], Manabu Ozawa[3], Shin-Ichiroh Saitoh[1]

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WS18-08-O/P

Mechanisms of Th1-skewed intestinal inflammation under adaptive immunodeficiency in the mice carrying W447C mutation of Lig4 encoding DNA ligase IV

◯ Hideki Kosako[1], Yusuke Yamashita[1], Misato Tane[1], Tadashi Okamura[1], Takashi Kato[2, 3], Izumi Sasaki[2], Sadahiro Iwabuchi[4], Hiroaki Hemmi[2, 5], Shinichi Hashimoto[4], Takashi Sonoki[1], Shinobu Tamura[1, 6], Tsuneyasu Kaisho[2, 7]

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WS18-09-O/P

A commensal-derived lipid mediator promotes tuft cell driven mucosal healing in colitis

◯ Shunya Hatai[1, 2], Yasutaka Motomura[1, 3], Koji Hosomi[4], Sakaguchi Taiki[5], Ryu Okumura[5], Daisuke Motooka[7], Eiichi Morii[8], Shota Nakamura[7], Takayuki Ogino[6], Kiyoshi Takeda[5], Jun Kunisawa[4], Kazuyo Moro[1, 2, 9]

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WS18-10-P

Immunomodulatory effect of Shakuyaku extract and its use for preventing inflammatory bowel disease

◯ Rahajeng Fitria Wahyuniputri, So-ichiro Sasaki, Yoshihiro Hayakawa

Institute of Natural Medicine, University of Toyama

WS18-11-P

The role of IL-13 in intestinal barrier disruption associated with regulatory T cell dysfunction

◯ Rina Sato, Yui Azami, Haruka Morimoto, Sami Uehara, Naoya Kase, Yohsuke Harada

Tokyo University of Science

WS18-12-P

Role of lymph-derived extracellular vesicles in the immune homeostasis of colon and pathogenesis of Ulcerative Colitis

◯ Hisashi Ueta, Hidefumi Kojima, Keiichi Tominaga, Yusuke Kitazawa, Yasushi Sawanobori, Mina Shirabe, Atsushi Irisawa, Nobuko Tokuda

Dokkyo Medical University

WS18-13-P

Anti-Integrin αVβ6 Autoantibodies in Ulcerative Colitis Patients Cross-React with Veillonella dispar

◯ Issei Wada[1, 2)], Naoki Morita[1)], Genta Furuya[1)], Kengo Sasaki[1)], Keishu Takahashi[1)], Masahiro Shiokawa[3)], Reiko Shinkura[1)]

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WS18-14-O/P

CD300b is a pathogenic receptor triggering autoinflammatory dermatitis and bone destruction by recognizing self-phospholipids

◯ Asako Kubota[1, 2)], Xuhao Huang[2)], Takae Yabuki[3)], Kumi Izawa[4)], Masatomo Takahashi[5)], Yoshihiro Izumi[5)], Masamichi Nagae[1, 2)], Kazuo Okamoto[6)], Jiro Kitaura[4, 7)], Sho Yamasaki[1, 2, 3, 8)]

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WS18-15-P

Emollient interventions in the development of atopic dermatitis in infancy

◯ Ulil Albab Habibah

Islamic University Indonesia

WS18-16-O/P

Tertiary Lymphoid Tissue Development and Stage Progression in Chronic Kidney Disease

◯ Jinghao Chen[1)], Takahisa Yoshikawa[3)], Naoya Toriu[1, 3)], Steffen Plunder[1)], Motoko Yanagita[1, 3)], Sungrim Seirin-Lee[1, 2)]

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WS18-17-O/P

Proteasome dysfunction in adipocytes causes lipodystrophy with autoinflammation

◯ Thanh Nam Nguyen, Junko Morimoto, Koji Yasutomo

Tokushima University

WS18-18-P

The role of Batf in the regulation of lipid metabolism in liver

◯ Soichiro Kato, Ryuji Owada, Tomoko Asatsuma-Okumura, Yoshiko Iwai

Nippon Medical School

WS18-19-P

Thyroid stimulating activity of IgM-type TSH receptor antibodies produced by gene transfer

◯ Keiko Nagata[1)], Shusei Hamamichi[2)], Yoshinori Ichihara[1)], Tatsuya Sawano[1)], Kanako Kazuki[2)], Takashi Moriwaki[2)], Junichiro Miake[1)], Kazuhiko Matsuzawa[1)], Yasuhiro Kazuki[2)], Takeshi Imamura[1)]

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WS18-20-P

Epigenetic regulation of TSHR expression by orbital fibroblasts from Graves' ophthalmopathy patients

◯ Sita Virakul[1)], Rajit Chompoowong[3)], Pimchanok Phankeaw[3)], Apinya Suwannavong[3)], Sopita Visamol[3)], Sukonlaphat Pitikeattikul[3)], Preamjit Saonanon[2)], Vannakorn Pruksakorn[2)], Panida Potita[2)], Tanapat Palaga[1)]

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WS18-21-P

Inhibitory Anti-Toll-Like Receptor 7 Monoclonal Antibody Attenuates Type 1 Diabetes in NOD Mice

◯ Ryutaro Fukui[1, 2)], Atsuo Kanno[2)], Yuji Motoi[2)], Kensuke Miyake[1, 2)]

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WS18-22-P

Moesin regulates homeostasis of alveolar epithelial cells and macrophages

◯ Hiroki Satooka, Takako Hirata

Shiga University of Medical Science

WS18-23-P

Elucidation of platelet function in an animal model of pulmonary arterial hypertension

◯ Koki Okada, Susumu Nakae, Masashi Ikutani

Hiroshima University

WS18-24-P

Baricitinib ameliorates glucocorticoid-resistant acute lung injury and modulates cytotoxic T cell and cytokine responses in a humanized mouse model

◯ Shinya Tamechika, Shinji Maeda
Nagoya City University School Medical Sciences, Nagoya City, Japan

WS18-25-P

Elucidating the immune mechanisms underlying biliary atresia after Kasai operation

◯ Shunsuke Uno[1, 2], Yuki Masuo[1], Toshiaki Bando[1], Hirotaka Sato[1], Hajime Morita[1], Lynn Zreka[1], Mouna Khan[1], Shuhe Ma[1], Hiroyuki Yoshitomi[1], Takashi Ito[3], Hironori Haga[2], Hideki Ueno[1]
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WS18-26-P

Role of ILC2 in the pathophysiology of autism spectrum disorder

◯ Tatsuya Yokota, Natsumi Awata, Nesta Amagiri, Koyomi Shiraishi, Ako Matsui, Minako Ito
Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

December 11

WS19 Innate immune response by phagocytes

WS19-01-O/P

Distinct properties of lymphoid-derived conventional dendritic cells

◯ Masashi Kanayama[1], Nobuyuki Onai[2], Toshiaki Ohteki[1]
[1]Department of Biodefense Research, Medical Research Laboratory, Institute of Science Tokyo, [2]Department of Immunology, Kanazawa Medical University

WS19-02-P

Marco is a critical immunosuppressive scavenger receptor for limiting liver inflammation and fibrosis in cholestasis

◯ Ryo Sugimura[1], Yu Miyamoto[1, 2], Masaru Ishii[1, 2]
[1]Department of Immunology and Cell Biology, Graduate school of Medicine, The University of Osaka, [2]Department of Immunology and Cell Biology, Immunology Frontier Research Center, The University of Osaka

WS19-03-O/P

Siglec-14 recognizes carbon nanomaterials and triggers inflammatory responses

◯ Shin-Ichiro Yamaguchi, Masafumi Nakayama
Ritsumeikan University

WS19-04-P

Screening of NLRP3 inflammasome inhibitors using THP-1 cells harboring the NLRP3 gene mutation

◯ Miho Ito[1], Hiroe Honda[2], Kaichi Kasai[1], Yoshinori Nagai[1]
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WS19-05-P

Cholic acid promotes the accumulation of CD11c-positive macrophages and contributes to the development of liver fibrosis

◯ Taeko Aoyama[1], Kaichi Kasai[1], Yukihiro Furusawa[1], Koichi Tsuneyama[2], Yoshinori Nagai[1]
[1]Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, [2]Department of Pathology and Laboratory Medicine, Tokushima University Graduate School

WS19-06-P

Chronic inflammation disarms inflammasome-stimulating particulate adjuvants

◯ Qi Su[1], Fabian Fischer[1], Sören Reinke[2], Joannah Fergusson[1], Anita Milicic[2], Jelena Bezbradica[1]
[1]Kennedy Institute of Rheumatology, [2]The Jenner Institute

WS19-07-O/P

Identification and functional analysis of inflammation-regulated circular RNAs controlling cytokine expression in macrophages

◯ Shuya Hiroki, Daisuke Ori, Norisuke Kano, Taro Kawai
Laboratory of Molecular Immunobiology, Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST), Nara, Japan

WS19-08-P

Coix polysaccharides enhanced cytokine production via TLR2 in macrophages

◯ Susumu Tomono[1)], Hidehiro Ando[2)], Masaaki Yoshida[2)], Sachiko Akashi-Takamura[1)]
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WS19-09-O/P

Transcriptomic analysis of osteal macrophages unveils molecular signatures of inflammation in experimental colitis-induced osteoporosis

◯ Alaa Terukawa, Ryota Suzuki, Hend Terukawa, Norimasa Iwasaki
Hokkaido University

WS19-10-P

Molecular Recognition of HIV Capsid by Host Nuclear Protein NONO Inducing Dendritic Cell Activation

◯ Yoji Mori[1)], Nanami Fujitani[1)], Manel Nicolas[2)], Kimiko Kuroki[1)], Katsumi Maenaka[1, 3, 4, 5)]
[1)]Facul. Pharm. Sci., Hokkaido Univ., [2)]Institut Curie, [3)]Inter. Inst. Zoonosis Control, Hokkaido Univ., [4)]Inst. Vaccine Res. & Devel., Hokkaido Univ., [5)]Facul. Pharm. Sci., Kyushu Univ.

WS19-11-P

GPR35 mediates monocyte recruitment and their inflammatory responses upon Listeria infection

◯ Yo Okamura[1)], Katsuhiro Nakanishi[1)], Wakana Ohashi[1)], Kiyoshi Takeda[2)], Eiji Umemoto[1)]
[1)]Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka, [2)]Department of Microbiology and Immunology, Graduate School of Medicine, The University of Osaka

WS19-12-O/P

Extracellular lipid metabolism driven by sPLA2-III controls the fate of macrophages in pulmonary fibrosis

◯ Sho Egawa[1)], Yoshitaka Taketomi[1)], Makoto Murakami[1, 2)]
[1)]The University of Tokyo, [2)]AMED-CREST

WS19-13-P

The effect of neutrophil extracellular traps on the construction of the metastatic niche in lung metastases of breast cancer

◯ Taiko Kawakami, Yusuke Nakanishi, Kyoko Takahashi
College of Bioresource Sciences, Nihon University

WS19-14-P

Neutrophil-mediated barrier breakdown: linking oral infection to brain inflammation and cognitive decline

◯ Hiroyuki Tada[1)], Wei Wei[1)], Haruna Yokoi[1)], Tongxin Liu[1)], Li-Ting Song[1)], Kanan Bando[1)], Tadasu Sato[2)]
[1)]Tohoku University Graduate School of Dentistry, [2)]Hokkaido University Faculty of Dental Medicine

WS19-15-O/P

Neutrophils turn the key to sex difference of lifespans when hyper-vitamin D in circulation

◯ Mayumi Mori, Chiaki Abe, Yuki Kanesaka, Yo-ichi Nabeshima
Kyoto University

WS19-16-P

LPS Preconditioning Enhances Phagocytosis of Liver Macrophages via MyD88-Independent Activation of Rho Family Small GTPases

◯ Takeshi Ono[1)], Yoko Yamaguchi[1)], Kearney M Bradley[1, 2)], Manabu Kinoshita[1)], Kei Mikita[1)]
[1)]National Defense Medical College, [2)]United States Army Japan Engineer and Scientist Exchange Program

WS19-17-P

Lipopolysaccharide preconditioning ameliorates septic shock survival by activating Kupffer cells and liver monocyte-derived macrophages in mice

◯ Hiroyuki Nakashima, Bradley M. Kearney, Kazuma Mori, Ryohei Suematsu, Hohei Yamada, Masafumi Saito, Masahiro Nakashima, Manabu Kinoshita
National Defense Medical College, Department of Microbiology and Immunology

WS19-18-P

Dynamics of MAPK and NF-κB p65 Signaling in Macrophages during LPS Tolerance at a Single-Cell Level

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WS19-19-O/P

Lysosomal DNA stress triggers TLR9-mediated emergency myelopoiesis and Liver fibrosis

◯ Ryota Sato[1)], Takuma Shibata[2)], Kiyoshi Yamaguchi[3)], Yoichi Furukawa[3)], Kenta Nakano[4)], Tadashi Okamura[4)], Ryutaro Fukui[1)], Yuji Motoi[1)], Kensuke Miyake[1)]

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WS19-20-O/P

TLR7 Stress Response Disrupts Immune Privilege and Triggers Submandibular Sialadenitis

◯ Takuma Shibata[1)], Yuji Motoi[2)], Ryota Sato[2)], Emi Nishimura[1)], Kensuke Miyake[2)]

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WS19-21-P

Infosomes: Inflammatory extracellular vesicles derived from NLRP3-activated macrophages

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WS19-22-P

Targeting maternal–fetal immune activation: Unfractionated heparin prevents inflammation-driven pregnancy loss

◯ Yasuyuki Negishi, Hajime Ino, Yumi Horii, Tomoko Ichikawa, Asako Watanabe, Yuki Kaito, Shunji Suzuki, Rimpei Morita

Nippon Medical School

December 11

WS20 Viral infections and Immunity

WS20-01-P

Dectin-2 plays a critical role in the host innate immune responses triggered by influenza virus glycans, including its interaction with human Dectin-2

◯ Hideki Yamamoto[1)], Natsuo Yamamoto[2, 3)], Tsuyoshi Suzuki[2)], Suguru Omiya[3)], Hidekazu Nishimura[3)], Sho Yamasaki[4)], Yoichiro Iwakura[5)], Chikako Tomiyama[1)]

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WS20-02-P

Respiratory syncytial virus–induced Gas6/Axl axis drives hyporesponsive macrophages to promote pneumococcal proliferation in the nasopharynx

◯ Saki Ishikawa[1)], Nanami Okada[2)], Yuzu Fukui[2)], Rumi Ueha[3, 4)], Toshihiro Ito[2)], Shigeki Nakamura[1)], Takehiko Shibata[1)]

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WS20-03-P

PD-L1+ neutrophils promote resolution of excessive inflammation in ARDS

◯ Atsushi Hara, Masahiro Kitabatake, Noriko Ouji-Sageshima, Ryutaro Furukawa, Kaito Yasuike, Toshihiro Ito

Department of Immunology, Nara Medical University

WS20-04-P

S100A8/S100A9 complex is critical for expression of type I interferon-related proteins in neutrophils

◯ Yumi Tohyama[1)], Kenichi Kouyama,[1)], Hiroyuki Tabata[1)], Kaoru Tohyama[2)]

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WS20-05-P

Regnase-1 haploinsufficiency in mice altered the character of lung neutrophils and limited pneumonia during SARS-CoV-2 infection

◯ Kotaro Tanaka[1)], Keiko Yasuda[1, 2)], Junichi Aoki[1)], Osamu Takeuchi[1)]

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WS20-06-P

Innate Inflammatory Responses in Murine Bone Marrow-Derived Dendritic Cells upon Non-Infectious Exposure to Human H3N2 Influenza Virus

◯ Natsuo Yamamoto[1)], Hideki Yamamoto[2)], Tsuyoshi Suzuki[3)], Suguru Omiya[1)], Hidekazu Nishimura[1)]

[1)]Virus Research Center, Sendai Medical Center, National Hospital Organization, [2)]Department of Medical Technology, Graduate School of Health Sciences, Niigata University, [3)]Department of Emergency and Critical Care Medicine, Fukushima Medical University

WS20-07-O/P

Recognition and inhibition of CTL escape mutant HIV-1 by KIR2DL2+ NK cells

◯ Nozomi Kuse[1, 2)], Kimiko Kuroki[3)], Nanami Tomioka[3)], Yu Zhang[2)], Shunsuke Kita[3)], Takayuki Chikata[2)], Katsumi Maenaka[3, 4, 5, 6, 7)], Masafumi Takiguchi[2)]

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WS20-08-P

Evaluation of CD8+ and CD4+ T cell response against various types of SARS-CoV-2 in patients with hematological malignancies

◯ Satoru Yamasaki, Shogo Ueda, Yukiko Ohashi, Kanako Shimizu, Shin-ichiro Fujii

RIKEN

WS20-09-P

Mechanisms of escape mutant selection by HLA-C*12:02-restricted HIV-1-specific T cells

◯ Takayuki Chikata[1, 2)], Kimiko Kuroki[3)], Shunsuke Kita[3)], Nanami Tomioka[3)], Anna E Kliszczak[4)], Wayne Paes[4)], Nozomi Kuse[2, 5)], Tomohiro Akahoshi[2)], Hiroyuki Gatanaga[1)], Persephone Borrow[4)], Katsumi Maenaka[3, 6, 7, 8, 9)], Masafumi Takiguchi[2)]

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WS20-10-O/P

Molecular basis of potent antiviral HLA-C-restricted CD8+ T cell response to an immunodominant SARS-CoV-2 nucleocapsid epitope

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WS20-11-O/P

Altered SARS-CoV-2-specific CD8+ T cell response profiles in people with HIV after natural infection

◯ Ai Kawana-Tachikawa[1, 2, 3)], Kaori Nakayama-Hosoya[1)], Alitzel Anzurez[1)], Michiko Koga[4, 5)], Hiroshi Yotsuyanagi[6, 7)], Yukihiro Yoshimura[8)], Natsuo Tachikawa[9)], Hiroyuki Yamamoto[1, 2)]

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WS20-12-P

Anti-Human TMPRSS2 mAbs Inhibit SARS-CoV-2 Infection by Targeting Unique Non-Catalytic Epitopes

◯ Michishige Harada[3)], Takehisa Matsumoto[3)], Kosuke Miyauchi[3)], Masashi Matsuda[3)], Mizuki Yamamoto[2)], Akiko Idei[6)], Kazuo Takayama[5)], Manabu Nakayama[4)], Yasushi Itoh[1)], Haruhiko Koseki[3)], Mikako Shirouzu[3)], Takashi Saito[3)]

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WS20-13-O/P

Anti-idiotypic antibodies targeting SARS-CoV-2 neutralizing antibodies encoded with IGHV3-53 germlines

◯ Yimei Wang[1)], Saya Moriyama[1)], Yu Adachi[1)], Akira Ainai[2)], Kenta Nakano[3)], Tadashi Okamura[3)], Tadaki Suzuki[2)], Hiroshi Itou[4)], Yoshimasa Takahashi[1)]

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WS20-14-P

Reactivation of cross-reactive, high-avidity T cells correlates with sustained humoral immunity post SARS-CoV-2 mRNA vaccination

◯ Celine Chua[1, 2)], Dongyun Lu[1, 2)], Xinxin Xue[1, 2)], Naila Shinwari[1, 2)], Isao Ito[3)], Takao Hashiguchi[4)], Hideki Ueno[1, 2)]

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WS20-15-P

Relationship between the genetic variability of HIV-2 Nef protein and CD3 intracellular motif binding ability

◯ Haruka Azuma[1)], Ryota Koseki[1)], Kengo Hirao[1)], Idai Ozawa[1)], Masato Sumi[2)], Takashi Tadokoro[3)], Sophie Andrews[4)], Sarah Rowland-Jones[4)], Kimiko Kuroki[1)], Katsumi Maenaka[1)]

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WS20-16-P

Cellular senescence-driven Gas6/Axl axis causes severe viral infection in aged mice

◯ Yuki Akimoto, Jyotaro Kinoshita, Yukie Kure, Yusuke Mogi, Kazuma Togo, Shigeki Nakamura, Takehiko Shibata

Tokyo Medical University

WS20-17-P

Molecular Mechanism of Immune Evasion of SARS-CoV-2 Targeting Host MHC Class I Expression

◯ Patrick Kao[1, 2)], Baohui Zhu[1)], Tsutomu Tanaka[1, 2)], Koichi Kobayashi[1, 2)]

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WS20-18-P

The FOXO1 inhibitor AS1842856 attenuates lung inflammation in SARS-CoV-2 infection by affecting both macrophages and airway epithelial cells

◯ Ryutaro Furukawa[1)], Noriko Ouji-Sageshima[1)], Masahiro Kitabatake[1)], Atsushi Hara[1)], Shigeyuki Shichino[2)], Satoshi Ueha[2)], Kouji Matsushima[2)], Toshihiro Ito[1)]

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WS20-19-P

Analysis of HBV-specific CD4+ T cells in the human liver perfusate

◯ Joey Matsuyama[1)], Daichi Akuzawa[1)], Hajime Morita[1)], Toshiaki Bando[1)], Shunsuke Uno[1)], Shuhe Ma[1, 2)], Lynn Zreka[1)], Mouna Khan[1)], Yuki Masuo[1)], Hirotaka Sato[1)], Ryo Nishida[1)], Hideki Ueno[1, 2)]

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WS20-20-P

Antigen-Specific High-Avidity CD4+ T Cells as Key Mediators of Protective Immunity Following mRNA Vaccination

◯ Xinxin Xue[1, 2, 3)], Naila Shinwari[1, 3)], Dongyun Lu[1, 2, 3)], Celine Chua[1, 3)], Isao Ito[4)], Takao Hashiguchi[5)], Hideki Ueno[1, 2, 3)]

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WS20-21-P

Dengue virus E protein probes for analysis of ADE antibodies in serum

◯ Kosuke Miyauchi

RIKEN IMS

WS20-22-O/P

17,18-epoxyeicosatetraenoic acid ameliorates mRNA-LNP-induced local inflammation by inhibiting neutrophil infiltration

◯ Keigo Iemitsu[1, 2)], Ken Yoshii[2)], Takahiro Nagatake[2, 3)], Jun Kunisawa[1, 2, 4, 5, 6, 7, 8, 9)]

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WS20-23-P

Long-term anti-viral CD8+T cell response by SARS-CoV2 antigen-expressing artificial adjuvant vector cells

◯ Shogo Ueda, Satoru Yamasaki, Kosuke Miyauchi, Kanako Shimizu, Shin-ichiro Fujii

RIKEN, IMS

WS20-24-O/P

Therapeutic efficacy of an adjuvant-containing live-attenuated AIDS vaccine in pathogenic SHIV-infected cynomolgus macaques

◯ Emiko Urano[1)], Tomotaka Okamura[1)], Yasuhiro Yasutomi[1, 2, 3, 4, 5)]

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WS20-25-P

Development of DNA vaccine against Zika virus

◯ Shih-Jen Liu[1, 2, 3)], Min-Syuan Huang[1, 4)], Hung-Chun Liao[1)]

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WS20-26-P

Effects of glycosylation of influenza vaccines on the induction of antibody production

◯ Kayoko Sato[1)], Hiroto Kawashima[2)], Hitoshi Takahashi[3)]

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WS20-27-P

Long-term therapeutic efficacy of live-attenuated AIDS virus expressing an adjuvant molecule in pathogenic SHIV-infected cynomolgus macaques

◯ Tomotaka Okamura[1, 2)], Yasuhiro Yasutomi[2)]

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WS20-28-P

Differential responses of memory T cells and memory B cells in following COVID-19 mRNA vaccination

◯ Kohei Kometani[1)], Takaaki Yorimitsu[1, 2)], Norihide Jo[1, 3)], Yoko Hamazaki[1, 4, 5)]

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WS20-29-O/P

Characterization of Virus-Host Immune Response and Screening of Viral Infection Using Animal RNA-Seq Data

◯ Luca Nishimura[1)], Hiroaki Unno[1)], Junna Kawasaki[2, 3)], Jumpei Ito[1)], Kei Sato[1)]

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WS20-30-P

The ability of MEX3B to bind to RNA is key to its strong suppression of HIV-1 viral replication

◯ Keiko Yasuda[1, 2)], Junichi Aoki[2)], Kotaro Tanaka[2)], Osamu Takeuchi[2)]

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WS20-31-P

Elucidating the relationship between RSV and Haemophilus influenzae coinfection in severe lower respiratory tract infections

◯ Eigo Kawahara[1, 2)], Kohei Morimoto[3)], Takafumi Sekiguchi[3)], Mika Morita[2, 3)], Yoshitomo Morinaga[1, 2)]

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December 11

WS21 Gastrointestinal Barrier and Immune Regulation

WS21-01-P

Intestinal dysbiosis promotes aluminium ammonium sulphate–induced pyroptosis and eosinophilic inflammation: protective role of heparin

◯ Ayako Wakabayashi[1)], Atsuko Owaki[1)], Ken Iwatsuki[2)], Etsuko Toda[3)], Yasuhiro Nishiyama[4)], Shoji Matsune[5)], Yasuyuki Negishi[1)], Rimpei Morita[1)]

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WS21-02-P

Protective effects of irisin in a model of inflammatory cytokine-induced intestinal organoid epithelial damage

◯ Arong Gaowa, Motomu Shimaoka
Mie University Graduate School of Medicine

WS21-03-O/P

Oral TRPV1 stimulation lowers the activation threshold for antigen-specific T cell responses via the CGRP–CD301b^{+} dendritic cell axis

◯ Mayuko Hashimoto, Yutaka Kusumoto, Michio Tomura
Osaka-Ohtani University

WS21-04-O/P

Fam3b regulates gut homeostasis by promoting epithelial fucosylation via Fut2 localization in the Golgi apparatus

◯ Yuki Ito[1, 2], Ryu Okumura[1, 3], Kiyoshi Takeda[1, 3]
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WS21-05-O/P

Role of B4galnt2-mediated glycosylation in the mucus barrier and gut homeostasis

◯ Airi Ishibashi, Ryu Okumura, Kiyoshi Takeda
The University of Osaka

WS21-06-P

Induction of Intestinal Epithelial α1,2-Fucosylation by Candida albicans is Strain Dependent

◯ Daichi Mori
Chiba University

WS21-07-P

E-NPP7 maintains epithelial homeostasis by regulating mitochondrial morphology and function in the intestine

◯ Hiroyuki Itoi[1], Akio Hayashi[2], Kiyoshi Takeda[1], Hisako Kayama[3]
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WS21-08-P

Enhanced ketogenesis drives morphogenic profile in neonatal intestinal epithelium

◯ Kyoko Matsuki[1], Taiki Sakaguchi[2], Kiyoshi Takeda[2]
[1]Hyogo Medical University, [2]The University of Osaka

WS21-09-O/P

Cross-species reactive IgA's physicochemical pattern recognition selectively inhibits the folate cycle of pathogenic bacteria

◯ Genta Furuya, Keishu Takahashi, Ryutaro Tamano, Kengo Sasaki, Naoki Morita, Peng Gao, Reiko Shinkura
Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo

WS21-10-P

IgA-deficiency breaks immunological and neurological homeostasis

◯ Takahiro Adachi
Institute of Science Tokyo

WS21-11-O/P

Dietary antigens contribute to intestinal homeostasis by enhancing ILC3 function

◯ Ayana Mori[1, 2], Mitsuki Ito[2, 3], Tomoko Kageyama[2], Naoko Tachibana[4], Tamotsu Kato[4], Ayumi Ito[4], Shiho Nagata[1, 4], Hiroshi Ohno[4, 5], Naoko Satoh-Takayama[1, 2]
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WS21-12-O/P

Polyreactive IgA induced by Limosilactobacillus reuteri and Muribaculum intestinale enhances gut mucosal barrier

◯ Hikari Maruta[1], Kisara Hattori-Muroi[1], Daisuke Takahashi[1], Reiko Shinkura[2], Tsukasa Matsuda[3], Koji Hase[1, 3, 4, 5]
[1]Division of Biochemistry, Faculty of Pharmacy, Keio University, [2]Institute for Quantitative Biosciences, Laboratory of Immunology and Infection Control, The University of Tokyo, [3]Institute of Fermentation Sciences (IFeS), Faculty of Food and Agricultural Sciences, Fukushima University, [4]Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q), Keio University, [5]International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo (IMSUT)

WS21-13-P

Acetate-mediated modulation of colonic ILC2s activation by Collinsella aerofaciens

◯ Mitsuki Ito[1, 2)], Tomoko Kageyama[1)], Ayana Mori[1, 3)], Naoko Tachibana[4)], Ayumi Ito[4)], Hiroshi Ohno[4)], Naoko Satoh-Takayama[1, 3)]

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WS21-14-P

ILC1-mediated protective mechanism of Kampo medicine, Rikkunshito, in the upper gastrointestinal tract

◯ Ruka Anzai[1, 2)], Yunzi Yan[1)], Tomoko Kageyama[1)], Tamotsu Kato[1)], Mitsue Nishiyama[3)], Naoko Satoh-Takayama[1, 2)]

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WS21-15-O/P

Spatial and functional characterization of ulcer-associated IL-33+ fibroblasts in ulcerative colitis

◯ Yuki Fukushima[1)], Satoshi Koga[1, 3)], Kazuyo Moro[1, 2, 3)]

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WS21-16-P

The protective roles of Group 2 innate lymphoid cells in acute intestinal inflammation

◯ Lili Tajima[1)], Emi Irie[1, 2)], Ichiro Mizushima[1)], Ka Kan[1)], Yuta Kaieda[1)], Junya Tsunoda[1, 3)], Yohei Mikami[1)], Takanori Kanai[1)]

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WS21-17-P

A Role of Mincle in the Colonic Macrophage During Experimental Colitis

◯ Kotaro Ito[1)], Junya Tsunoda[1, 2)], Lili Tajima[1)], Ichiro Mizushima[1)], Yuta Kaieda[1)], Mikami Yohei[1)], Takanori Kanai[1)]

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WS21-18-P

T cell library platform as a screening strategy for intestinal microbes inducing TH17 response in ulcerative colitis

◯ Hideki Ogura[1)], Ryo Unita[2)], Motoi Uchino[3)], Hiroki Ikeuchi[3)], Satoshi Ishido[1)]

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WS21-19-P

W27 IgA Antibody Enables Detection of Pathogenic Bacteria-Enriched Tumor Regions in a CRC Mouse Model

◯ Seyong Ko, Naoki Morita, Genta Furuya, Keishu Takahashi, Reiko Shinkura

The University of Tokyo

WS21-20-O/P

ILC3s-neuro axis in the gut regulates energy metabolism during fasting

◯ Takuma Misawa[1, 2)], Kazuyo Moro[1, 3, 4, 5)], Shigeo Koyasu[2)]

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December 12

WS22 T cell differentiation and function

WS22-01-O/P

Bcl11-Cxxc1 axis controls stage-specific chromatin accessibility during lymphopoiesis

◯ Kazuki Okuyama, Ichiro Taniuchi

Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences

WS22-02-O/P

DEAD-box RNA helicase 6 regulates T cell activation and drives autoimmune pathogenesis

◯ Chihiro Goya, Asako Kajiya, Ting Cai, Masanori Yoshinaga, Osamu Takeuchi
Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS22-03-O/P

In vivo CRISPR screening reveals metabolic control of TFH cells and humoral immunity by phosphatidylethanolamine

◯ Guotong Fu
Shanghai Immune Therapy Institute

WS22-04-O/P

Bob1+ T follicular helper cells support intestinal mucosal immunity

◯ Shotaro Shirato[1, 2], Ippei Ikegami[1], Takashi Sasaki[3], Umi Komabayashi[1], Ayumi Tatekoshi[1, 2], Masayoshi Kobune[2], Shingo Ichimiya[1]
[1]Department of Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, [2]Department of Hematology, Sapporo Medical University School of Medicine, [3]Animal Research Center, Sapporo Medical University School of Medicine

WS22-05-O/P

MyD88 signaling suppresses memory T helper cell formation

◯ Kokoro Ohki[1], Shintaro Hojyo[2], Koji Tokoyoda[1]
[1]Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, [2]Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

WS22-06-O/P

PD-1 suppresses germinal center reaction and affinity maturation of antibodies

◯ Yosuke Tokumaru[1, 2], Yuka Nakajima[1, 3], Kensuke Suzuki[1, 2], Tasuku Honjo[3], Akio Ohta[1]
[1]Department of Immunology, Foundation for Biomedical Research and Innovation at Kobe (FBRI), [2]Drug Discovery Department, R&D Division, Meiji Seika Pharma Co, Ltd., [3]Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

WS22-07-O/P

Antigen-Presenting Extracellular Vesicles Enable Subset-Specific Modulation of CD4⁺ T Cells

◯ Uryo Onishi[1, 2], Ryouken Kimura[2], Shota Imai[2], Xiabing Lyu[2, 3], Tomoyoshi Yamano[2, 3], Rikinari Hanayama[2, 3]
[1]School of Medical and Pharmaceutical Sciences, Kanazawa University, [2]Department of Immunology, Graduate School of Medicine, Kanazawa University, [3]WPI Nano Life Science Institute (NanoLSI), Kanazawa University

WS22-08-P

Multi-omics analysis reveals metabolic sensing of lipid deficiency drives fatty acid uptake

◯ Takeru Endo[1, 2], Keisuke Miyako[2], Toshio Kanno[2], Haruhiko Koseki[1], Yusuke Endo[2]
[1]Chiba University, Department of Cellular and Molecular Medicine, [2]Kazusa DNA Research Institute, Laboratory of Medical Omics Research

WS22-09-P

Differential Lck interactomes under the TCR signals engaged by MHC-I and MHC-II

◯ Junji Harada[1, 2], Ichiro Taniuchi[1]
[1]Laboratory for Transcriptional Regulation, IMS, RIKEN, [2]Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

WS22-10-P

Unraveling relevance of phosphorylation on multiple tyrosine residues in Runx1 during thymocyte differentiation

◯ Zhizhen Qin[1, 2], Ichiro Taniuchi[1]
[1]Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Science, RIKEN, [2]Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

WS22-11-P

Regulatory T cells exhibit homeostatic proliferation and differentiation in lymphopenic and lymphosufficient environments

◯ Feng Gao[1], Jing Li[1], Reoka Aoki[1], Fanyue Meng[1], Natsuki Asami[1], Shunichi Tayama[1], Naoto Ishii[1], Takeshi Kawabe[1, 2]
[1]Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan., [2]Division for the Establishment of Frontier Sciences, Tohoku University Organization for Advanced Studies, Sendai, Japan.

WS22-12-P

Analysis of a newly identified mouse strain with abundant Th17 cells in the lamina propria of the small intestine

◯ Kaichi Kasai[1, 2], Yukihiro Furusawa[1], Yoshinori Nagai[1]
[1]Department of Biotechnology and Pharmaceutical Engineering, Graduate School of Engineering, Toyama Prefectural University, [2]Ikedamohando Co., Ltd

WS22-13-P

Dissecting the cell-intrinsic role of CTLA-4 in Tfh differentiation and function

◯ Sae Ando, Naoya Kase, Mao Yamada, Minori Ishimaru, Taiga Kiyofune, Tomohiro Konagaya, Shuhei Ogawa, Yohsuke Harada

Tokyo University of Science

WS22-14-P

Development of Animal-Origin Free Medium for Efficient T Cell Differentiation from hiPSCs

◯ Marina Takeuchi, Rino Kimura, Yasuyuki Kita, Jessica Chang, Yu Sudo

Ajinomoto Co., Inc.

WS22-15-P

Effect of Intracellular Zinc Homeostasis on Human T Cell Function

◯ Airi Negami[1)], Taiga Yunoue[1)], Takumi Murayama[1)], Shin Ejima[2)], Junya Ohtake[3, 4)], Hidemitsu Kitamura[1, 2, 3, 4)]

[1)]Course of Biomedical Engineering, Graduate School of Life Sciences, Toyo University, [2)]Deparment Biomedical Engineering, Faculty of Science and Engineering, Toyo University, [3)]Research Facility Center, Asaka, Toyo University, [4)]Research Center, Biomedical Engineering, Toyo University

WS22-16-P

Immune Cell Differentiation Analysis Using Third Generation Sequencing

◯ Yamato Tanabe[1, 2, 3)], Makoto Kurachi[1)], Sotaro Fujisawa[1)], Kazuo Okamoto[2, 3)]

[1)]Molecular Genetics, Graduate School of Medical Sciences, Kanazawa University, [2)]Division of Immune Environment Dynamics, Cancer Research Institute, Kanazawa University, [3)]Immune Network Research Unit, Pursuit of Truth Research Core, Institute for Frontier Science Initiative, Kanazawa University

WS22-17-P

Modulation of SCD2 triggers STING-mediated type I interferon production via nuclear DNA leakage

◯ Toshio Kanno, Keisuke Miyako, Yusuke Endo

KAZUSA DNA Institution, Laboratory of Medical Omics Research

WS22-18-P

Systemic IgE and local Th2 cells cooperatively promote local IgE response and development of allergic rhinitis in mice

◯ Takuya Nakai[1, 2)], Kazufumi Matsushita[1)], Etsushi Kuroda[1)]

[1)]Department of Immunology, Hyogo Medical University School of Medicine., [2)]Department of Orthopaedic Surgery, Hyogo Medical University School of Medicine.

WS22-19-P

CD4+ CD8 alpha+ double positive T cells in the periphery are induced from CD4 single positive T cells by TCR signaling with IL-6 and IL-7

◯ Ryota Takahashi, Hirohito Ishigaki, Takako Sasamura, Kenichi Otaki, Yasushi Itoh

Shiga University of Medical Science

WS22-20-P

Unconventional immune responses in lipid nanoparticle-based mRNA vaccines

◯ Hung Huynh[1)], Ryunosuke Muro[1)], Taku Ito-Kureha[2)], Hiroshi Takayanagi[2)], Takeshi Nitta[1)]

[1)]Tokyo University of Science, Research Institute for Biomedical Sciences, Division of Molecular Pathology, [2)]The University of Tokyo, Graduate School of Medicine and Faculty of Medicine, Department of Immunology

WS22-21-P

The Role of BRD4 in Thymic Differentiation and Function

◯ Dinah Singer, Jie Mu, Mami Matsuda-Lennikov, Yousuke Takahama

National Cancer Institute, NIH

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WS23 Tumor Immunity - Therapies

WS23-01-P

The Runx3R122C Variant induces Effector TEXprog Development and Improves CD8-T cell Anti-tumor Immunity

◯ Aneela Nomura[1)], Ei Wakamatsu[2)], Hideyuki Yoshida[1)], Kazuki Okuyama[1)], Koshi Imami[1)], Masato Kubo[1)], Yoshiaki Ito[3)], Tadashi Yokosuka[2)], Shiki Takamura[1)], Ichiro Taniuchi[1)]

[1)]RIKEN IMS, [2)]Tokyo Medical University , [3)]National University of Singapore

WS23-02-P

Anti-soluble CD155 antibody augments the efficacy of PD-1 blockade on tumor immunity

◯ Shota Kinoshita[1, 2)], Tomohei Matsuo[1)], Naoto Takeuchi[1, 3)], Akira Shibuya[1, 4)], Kazuko Shibuya[1, 4)]

[1)]Department of Immunology, Institute of Medicine, University of Tsukuba, [2)]Ph. D. program of Human Biology, Comprehensive Human Sciences, University of Tsukuba, [3)]Doctoral Program in Medical Science, Comprehensive Human Sciences, University of Tsukuba, [4)]R&D Center for Innovative Drug Discovery, University of Tsukuba

WS23-03-O/P

Harnessing an epigenetic rewiring technique to tailor T cell differentiation for controlling colitis and tumors

◯ Lorene Rousseau[1, 2], Stefania Vilbois[1], Stanislav Dergun[1], Ping-Chih Ho[1]
[1]University of Lausanne UNIL, [2]Centre Hospitalier Universitaire Vaudois CHUV

WS23-04-O/P

Engineering a tunable split CAR system with low immunogenicity for next-generation cancer immunotherapy

◯ Tsukasa Shigehiro, Ryuki Ueda, Hiroyuki Kadota, Tomokatsu Ikawa
Tokyo University of Science, Research Institute for Biomedical Sciences

WS23-05-P

Generation of functional human NK and T cells in human IL-15 and IL-15 receptor alpha-expressing NOG mice transplanted with human CD34+ hematopoietic stem cells

◯ Asami Hanazawa[1], Motohito Goto[1], Hideki Nabekawa[2], Riichi Takahashi[1], Takeshi Takahashi[1], Taichi Yamamoto[1, 2], Masami Suzuki[1]
[1]Central Institute for Experimental Medicin and Life Science, [2]In-Vivo Science Inc.

WS23-06-P

Advancing CAR T Clinical Development with High-Parameter CyTOF Technology

◯ Masahiro Otsu[1], Ling Wang[2], Shakir Hasan[2], Stephen Li[2], Michael Cohen[2], Deeqa Mahamed[2], Christina Loh[2]
[1]Standard Biotools, [2]Standard BioTools Canada Inc.

WS23-07-O/P

Reprogramming antitumor T cells to achieve a long-lived memory phenotype

◯ Mirei Kataoka, Yusuke Ito, Yuki Kagoya
Keio University

WS23-08-O/P

Exosomes, regulated by SPRED2, reshape tumor microenvironment via activating IL6/ STAT3 signaling

◯ Tong Gao, Miao Tian, Tianyi Wang, Masahiro Fujisawa, Toshiaki Ohara, Teizo Yoshimura, Akihiro Matsukawa
Okayama University

WS23-09-P

Achieving persistency of T cells with TCR-engineered Hematopoietic Progenitor Cells for eradication of solid tumors

◯ Richard Koya
University of Chicago

WS23-10-P

A simplified and feeder-free process to produce iPSC-derived T cells compatible with automated large-scale culture systems

◯ Seiji Nagano[1], Junichi Fukunaga[1, 2], Hiroshi Kawamoto[1]
[1]Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University, [2]Rebirthel Co., Ltd.

WS23-11-O/P

PD-L1 blockade expanded a proliferative subset within exhausted CD8+ tumor-infiltrating lymphocytes

◯ Naoya Baba[1], Tsunoda Mikiya[1], Munetomo Takahashi[2], Masaki Kurosu[1], Haru Ogiwara[1], Kouji Matsushima[1], Satoshi Ueha[1]
[1]Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, [2]The University of Tokyo

WS23-12-P

Development of TCR-T cells targeting solid tumors using novel lentiviral vector and RetroNectin®

◯ Mako Tomogane, Yasunori Amaishi, Izumi Maki, Kaho Takeichi, Makie Takematsu, Sachiko Okamoto
TAKARA BIO INC.

WS23-13-P

Evaluation of Immune Checkpoint Inhibitory Activity of Subcritical Water Extracts from the Fruiting Body of Hericium erinaceus

◯ Hajime Kobori[1, 2], Taro Yasuma[3], Masaaki Toda[3], Jing Wu[2, 4], Kazuhiko Masuno[5], Hirokazu Kawagishi[2, 6], Corina D'Alessandro-Gabazza[3], Esteban Gabazza[3]
[1]Iwade Research Institute of Mycology Co., ltd., [2]Research Institute for Mushroom Science, Shizuoka University, [3]Department of Immunology, Mie University School of Medicine, [4]Faculty of Agriculture, Iwate University, [5]Nagano Prefecture General Forest Research Center, [6]Faculty of Agriculture, Shizuoka University

WS23-14-P

Soluble CD155 attenuates tumor immune response in tumorigenesis

◯ Naoto Takeuchi[1, 2)], Soontae Gwon[1)], Shota Kinoshita[1)], Akira Shibuya[1, 3)], Kazuko Shibuya[1, 3)]

[1)]Departments of Immunology, Institute of Medicine, University of Tsukuba, [2)]Doctoral Program of Clinical Sciences, Comprehensive Human Sciences, University of Tsukuba, [3)]R&D Center for Innovative Drug Discovery, University of Tsukuba

WS23-15-P

Leukocyte progenitor-derived CAR-NK cells exhibit superior antitumor activity and reduced alloreactivity compared to CAR-T cells

◯ Jia Han, Tsukasa Shigehiro, Karin Noma, Takashi Kimura, Tomokatsu Ikawa

Tokyo University of Science

WS23-16-O/P

Prevention of NK cell-mediated rejection by using mAbs for inhibitory receptors of NK cells

◯ Masao Itahara[1)], Kyoko Masuda[1)], Koji Terada[2)], Yuma Kato[1)], Yasutoshi Agata[2)], Hisashi Arase[3)], Hiroshi Kawamoto[1)]

[1)]Department of Immunology, Institute for Life and Medical Sciences, Kyoto University, [2)]Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, [3)]Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka

WS23-17-P

Targeting of Lipo-P4-aPDL1 induces anticancer effect on PC3, a prostate cancer cell line

◯ Yuuki Hoshino[1)], Shino Oshima[1)], Yoshiyuki Manabe[2)], Hitoshi Ishimoto[3)], Sunao Shoji[4)], Takashi Shiina[1)], Yoshie Kametani[1)]

[1)]Dept. of Mol. Life Sci. Tokai Univ. Schl. Med., [2)]Dept. of Chem. Grad Schl Sci., The University of Osaka [3)]Dept. OB-GYN, Tokai Univ. Schl. of Med., [4)]Dept. of Urol., Tokai Univ. Schl. Med

WS23-18-O/P

iPS cell-derived NKT cells recognize NCR3LG1 and show anti-tumor effects

◯ Hongxuan Wang, Takahiro Aoki, Mariko Takami, Daiki Shimizu, Katsuhiro Nishimura, Ko Ozaki, Shinichiro Motohashi

Chiba University

WS23-19-P

Streamlined CAR-T Cell Manufacturing via Integration of RetroNectin®, G-Rex, and Lentiviral Vectors

◯ Yasunori Amaishi, Izumi Maki, Seina Inui, Sachiko Okamoto

Takara Bio Inc.

WS23-20-P

SHP2 inhibition: A dual-action approach for advancing cancer immunotherapy

◯ Bayarbat Tsevegjav[1)], Hirotake Tsukamoto[2)], Osamu Kikuchi[1)]

[1)]Division of Clinical Pharmacology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, [2)]Division of Clinical Immunology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University

December 12

WS24 Allergy (II): Mastering Disease Control

WS24-01-O/P

Pivotal roles of receptor for advanced glycation end product in the pathogenesis of allergic contact dermatitis

◯ Ryutaro Yamazaki[1)], Ryotaro Koishi[1)], Tetsuya Honda[2)], Kenji Kabashima[3)], Yasuhiko Yamamoto[4)], Jun Kunisawa[5)], Takahiro Nagatake[1, 5)]

[1)]Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, [2)]Department of Dermatology, Hamamatsu University School of Medicine, [3)]Department of Dermatology, Kyoto University Graduate School of Medicine, [4)]Department of Biochemistry and Molecular Vascular Biology, Kanazawa University Graduate School of Medical Sciences, [5)]Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, Microbial Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health and Nutrition

WS24-02-O/P

Psychological stress induces β2-adrenergic signaling–mediated macrophage immunosenescence and epigenetic suppression of efferocytosis in allergic skin inflammation

◯ Soichiro Yoshikawa[1)], Kei Nagao[1)], Sumika Toyama[1)], Mitsutoshi Tominaga[1)], Kenji Takamori[1, 2)]

[1)]Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender Specific Medicine, Juntendo University Graduate School of Medicine, [2)]Department of Dermatology, Juntendo University Urayasu Hospital

WS24-03-O/P

Role of resident memory Th2 cells in a protease allergen-induced allergic airway inflammation

◯ Seiji Kamijo, Toshiro Takai, Ko Okumura

Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

WS24-04-O/P

Endogenous soluble ST2 inhibits food allergic responses in murine models

◯ Kumi Izawa[1)], Mayuki Kojima[1, 2)], Tomoaki Ando[1)], Keiko Maeda[1)], Ayako Kaitani[1)], Nobuhiro Nakano[1)], Akie Maehara[1)], Naoko Negishi[1)], Ko Okumura[1)], Jiro Kitaura[1)]

[1)]Atopy Research Center, Juntendo University School of Medicine, [2)]Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine

WS24-05-O/P

Antigen-specific stimulation regulates impaired induction and dysfunction of regulatory T cell in food allergy

◯ Tomohiro Hoshino, Kyoko Shibahara, Haruka Nakanishi, Kohei Soga, Kosuke Nishitsuji, Yoshiyo Bamba, Satoshi Hachimura, Haruyo Nakajima-Adachi

The University of Tokyo

WS24-06-O/P

Differential local IgE responses among mouse strains regulate the severity of food allergy-induced diarrhea

◯ Hiroka Yamashita[1)], Yasutaka Motomura[1, 4)], Kazuyo Moro[1, 2, 3)]

[1)]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2)]Laboratory for Innate Immune Systems, RIKEN-IMS, [3)]Laboratory for Innate Immune Systems, IFReC, The University of Osaka, [4)]Research Institute for Biomedical Science, Tokyo University of Science

WS24-07-O/P

The role of immune cells in the choroid of the eye: Mast cells as regulators of myopia

◯ Shin-ichi Ikeda[1, 2)], Tomokazu Fukuchi[1, 2)], Jue Shi[1, 2)], Kazuno Negishi[1)], Kazuo Tsubota[1, 3)], Toshihide Kurihara[1, 2)]

[1)]Department of Ophthalmology, Keio University School of Medicine, [2)]Laboratory of Photobiology, Keio University School of Medicine, [3)]Tsubota Laboratory, Inc

WS24-08-O/P

The role of conjunctival friction and pollen shells in the goblet cell-associated antigen passage (GAP) formation

◯ Yasuharu Kume[1, 2)], Tomoaki Ando[1)], Keiji Matsumoto[1, 2, 3)], Ryo Omori[1, 2, 3)], Meiko Kimura[1, 2)], Moe Matsuzawa[1, 2)], Kumi Izawa[1)], Ayako Kaitani[1)], Ko Okumura[1)], Shintaro Nakao[1, 3)], Nobuyuki Ebihara[2)], Jiro Kitaura [1, 2, 4)]

[1)]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, [2)]Department of Ophthalmology, Juntendo University Urayasu Hospital, [3)]Department of Ophthalmology, Juntendo University Graduate School of Medicine, [4)]Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine

WS24-09-P

Differential characteristics of atopic dermatitis-like skin inflammation developed in distinct CD4+ T cell-cloned mouse lines

◯ Uyanga Enkhbaatar[1)], Kento Miura[1)], Norimasa Yamasaki[1)], Sawako Ogata[1)], Kimiko Inoue[2, 3)], Atsuo Ogura[2)], Osamu Kaminuma[1)]

[1)]Department of Disease Model, Research Institute for Radiation Biology and Medicine, Hiroshima University, Hiroshima 734-8553, Japan, [2)]RIKEN BioResource Research Center, [3)]Graduated School of Life and Environmental Science, University of Tsukuba

WS24-10-P

Aryl hydrocarbon receptor differentially modulates basophil activation induced by IgE/allergen or IL-3 plus IL-33 stimulation

◯ Kei Nagao, Soichiro Yoshikawa, Zheyu Hu, Ayako Yamashita, Sumika Toyama, Mitsutoshi Tominaga, Kenji Takamori

Juntendo Itch Research Center (JIRC), Institute for Environmental and Gender- Specific Medicine, Juntendo University Graduate School of Medicine, Chiba, Japan

WS24-11-P

Prophylactic allergen administration onto the oral mucosa prevents ovalbumin-induced allergic immune response and anaphylaxis in mice

◯ Yuya Yoshida[1)], Ryohei Shibao[1)], Hiroki Urakawa[1)], Hikaru Fuchita[1)], Yusei Kiuchi[1)], Mina Iwata[1)], Norihisa Mikami[2, 3)], Ryoji Kawakami[2, 3)], Hirohito Kita[4, 5)], Takumi Tsuji[1)]

[1)]Department of Pathological Biochemistry, Faculty of Pharmaceutical Sciences, Setsunan University, Hirakata, Osaka, Japan, [2)]Department of Experimental Immunology, Immunology Frontier Research Center, The University of Osaka, Suita, Osaka, Japan, [3)]Department of Experimental Pathology, Institute for Frontier Life and Medical Sciences, Kyoto University, Sakyo-ku, Kyoto, Japan, [4)]Division of Allergy, Asthma and Clinical Immunology, and Department of Medicine, Mayo Clinic Arizona, Scottsdale, AZ, USA, [5)]Department of Immunology, Mayo Clinic Rochester, Rochester, MN, USA

WS24-12-P

Mechanism of inhibition of allergic inflammatory reactions by molecules derived from indigenous skin bacteria

◯ Reina Mukainaka, Yuma Ito, Isamu Ogawa, Shigeaki Hida

Graduate School of Pharmaceutical Sciences, Nagoya City University

WS24-13-P

The role of Foxp3-deficient Treg cells in skin inflammation induced by Foxp3 and Bcl6 deficiency

◯ Hina Nakamura, Naoya Kase, Chizuru Nakakomi, Manami Shimakata, Mai Banno, Ryotaro Kanari, Yosuke Harada
Tokyo University of Science

WS24-14-P

In vitro generation of human mucosal-type mast cells

◯ Nobuhiro Nakano, Jiro Kitaura, Ko Okumura
Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

WS24-15-P

Disease Severity and Antihistamine Efficacy in Relation to the Endotype of Chronic Spontaneous Urticaria

◯ Ying Xie[1)], Ryo Saito[2)], Daiki Matsubara[2)], Shunsuke Takahagi[3)], Michihiro Hide[2)], Sungrim Seirin-Lee[1, 4)]
[1)]Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University Institute for Advanced Study, Kyoto University, [2)]Department of Dermatology, Graduate School of Biomedical and Health Sciences, Hiroshima University, [3)]Department of Dermatology, JA Hiroshima General Hospital, [4)]Department of Mathematical Medicine, Graduate School of Medicine, Kyoto University

WS24-16-P

The Role of TNFSF14 (LIGHT) in the Development of Eosinophilic Vasculitis

◯ Yuka Yoshiki[1, 2)], Haruka Miki[1)], Ayako Ohyama[1)], Saori Abe[1)], Ayako Kitada[1)], Hiromitsu Asashima[1)], Yuya Kondo[1)], Hiroto Tsuboi[1)], Isao Matsumoto[1)]
[1)]Department of Rheumatology, Institute of Medicine, University of Tsukuba, [2)]Master's Program in Medical Sciences, Degree Programs in Comprehensive Human Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba

WS24-17-P

Different effects of acute and chronic exercise on allergic responses

◯ Takeru Sakaue, Kakeru Takenobu, Ako Matsui, Genta Akiyama, Minako Ito
Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS24-18-P

Therapeutic effects of flavonoids derived from Rosae multiflorae Fructus in a mouse model of atopic dermatitis

◯ Hee Soon Shin
Korea Food Research Institute

WS24-19-P

Phenotype and responsiveness of lung immune cells in mouse model of food allergy

◯ Masato Tsuda, Kazuya Nakadai, Takumi Mizoguchi, Akira Takahashi, Akira Hosono
Department of Food Science and Technology, College of Bioresource Sciences, Nihon University

December 12

WS25 Systemic autoimmunity, Autoinflammation and Immunideficiency

WS25-01-P

The role of fatty acid elongase Elovl6 in T cells and B cells in a murine model of systemic lupus erythematosus

◯ Ryohei Nishino, Yuya Kondo, Reona Tanimura, Ryota Sato, Masaru Shimizu, Ayako Ohyama, Ayako Kitada, Saori Abe, Haruka Miki, Hiromitsu Asashima, Hiroto Tsuboi, Isao Matsumoto
Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS25-02-O/P

Role of IFNγ^{+}CD4^{+} T cells in promoting autoantibody production via B cell differentiation in a toll-like receptor 7 agonist-induced lupus model

◯ Reona Tanimura, Yuya Kondo, Ryota Sato, Ryohei Nishino, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto
Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS25-03-O/P

Breaking Immune Tolerance: Self and Neoself Discrimination by T cells in Autoimmune Diseases

◯ Shunsuke Mori[1)], Hisashi Arase[1, 2)]
[1)]Department of Immunochemistry, Research Institute for Microbial Diseases, The University of Osaka, [2)]Laboratory of Immunochemistry, World Premier International Immunology Frontier Research Centre, The University of Osaka

WS25-04-P

Correlation of interferons and autoimmune aspects in long COVID-19 patients

◯ Fumiyuki Hattori, Junji Nishiyama , Hideaki Hasuo
Kansai Medical University

WS25-05-P

Involvement of gut microbiota in the development and worsening of lupus mesenteric vasculitis

◯ Maki Fujishiro[1)], Kunihiro Hayakawa[1)], Keigo Ikeda[2)], Shinji Morimoto[2)]

[1)]Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, [2)]Department of Internal Medicine and Rheumatology, Juntendo University Urayasu Hospital

WS25-06-P

Investigating the contributions of gut microbiota on autoimmune induction in a mouse model

◯ Kunihiro Hayakawa, Maki Fujishiro

Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine

WS25-07-P

Adenosine deaminase promotes B cell differentiation and contributes to the pathogenesis of systemic lupus erythematosus

◯ Koki Matsushita, Yu Nagayoshi, Hitomi Kaneko, Ryosuke Yamamura, Takeshi Chujo, Kazuhito Tomizawa

Department of Molecular Physiology, Faculty of Life Sciences, Kumamoto University

WS25-08-P

Soluble Phospholipase D4 Regulates Human B Cell Function via Toll-like Receptor 9

◯ Yihan Liu, Shuji Akizuki, Mirei Shirakashi, Ryosuke Hiwa, Hideaki Tsuji, Ran Nakashima, Hajime Yoshifuji, Akio Morinobu

Kyoto University

WS25-09-P

Immunological Hallmarks of Peripheral T Cells in SLE Revealed by Mass Cytometry: Distinct Profiles Compared to HC and RA

◯ Shinji Maeda, Shin-ya Tamechika

Department of Respiratory Medicine, Allergy and Clinical Immunology, Nagoya City University

WS25-10-P

Autoreactive CD11c+ B cell expansion is controlled by NR4A2 in helper T cells

◯ Eiichiro Amano, Ben Raveney, Takashi Yamamura, Shinji Oki

National Institute of Neuroscience, National Center of Neurology and Psychiatry

WS25-11-P

All-trans-retinoic acid suppresses age-associated B cell generation and ameliorates autoimmunity

◯ Keisuke Imabayashi, Yoshihiro Baba

Kyushu University

WS25-12-P

Arl8b plays an essential role in the development of systemic lupus erythematosus by reducing the increase of abnormal T cell numbers

◯ Shin-Ichiroh Saitoh[1, 2)], Yoshiko Mori Saitoh[1, 2)], Kenji Kontani[3)], Yukihisa Tanaka[4)], Tamami Denda[4, 5)], Yasunori Ota[4)], Kensuke Miyake[2, 6, 7)], Shin-Ichiroh Saitoh[1, 2)]

[1)]Department of Intractable Disorders, Institute of Advanced Medicine, Wakayama Medical University, [2)]Division of Infectious Genetics, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, [3)]Department of Biochemistry, Meiji Pharmaceutical University, [4)]Department of Pathology, Research Hospital, The Institute of Medical Science, The University of Tokyo, [5)]Department of Pathology, Toranomon Hospital, [6)]Laboratory of Innate Immunity, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo, [7)]Synergy Institute for Futuristic Mucosal Vaccine Research and Development, Chiba University

WS25-13-O/P

A prognostic type I interferon signature in ANCA-associated glomerulonephritis

◯ Nariaki Asada, Robin Khatri, Jonas Engesser, Huiying Wang, Pauline Ginsberg, Ulf Panzer

University Medical Center Hamburg -Eppendorf

WS25-14-O/P

Recognition of Neoself Antigens by Clonally Expanded Salivary Gland T Cells in Sjögren's Syndrome

◯ Katsuhiro Atagi[1)], Shunsuke Mori[1)], Michiko Ohashi[1, 2, 3)], Yang Jing[1, 2)], Shoji Kawada[3)], Noriko Arase[4)], Hui Jin[1)], Masayuki Nishide[3)], Manabu Fujimoto[4)], Atsushi Kumanogoh[3)], Hisashi Arase[1, 2)]

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WS25-15-P

Immunological effect on neuropsychiatric symptoms in Sjögren's syndrome models

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WS25-16-P

Umbilical cord-derived mesenchymal stem cells suppress the pathogenesis of primary Sjögren disease by inducing Bach2 expression

◯ Yukitomo Hagiwara, Goh Murayama, Taiga Kuga, Yujin Nishioka, Masaki Nojima, Yu Yamaji, Tomoko Miyashita, Makio Kusaoi, Ken Yamaji, Naoto Tamura

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WS25-17-P

B cell dynamics in the bone marrow of Sjögren's syndrome model mice

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WS25-18-P

Analysis of suppressive mechanism for T cell activation via Trat1 in Sjögren's syndrome model mouse

◯ Ruka Nagao[1)], Akiko Yamamoto[2)], Aya Ushio[3)], Kunihiro Otsuka[1)], Shigefumi Matsuzawa[1, 4)], Takaaki Tsunematsu[1)], Naozumi Ishimaru[3)]

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WS25-19-P

CD4+CD8+ T cells in the cervical lymph nodes in SATB1cKO mice are autoreactive

◯ Yuriko Tanaka[1)], Shuhei Mashimo[2)], Akiko Inoue[3)], Marii Ise[1)], Taku Naito[1)], Taku Kuwabara[1)], Motonari Kondo[1)]

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WS25-20-P

Antigen-specific induced regulatory T cells exacerbate disease severity in a murine model of systemic sclerosis

◯ Fatemeh Beygom Mirkatouli, Norimasa Yamasaki, Ryoken Yamanaka, Sawako Ogata, Megumi Nakamura, Toshiya Inaba, Osamu Kaminuma

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WS25-21-O/P

Deciphering state-dependent immune features at single-cell resolution from multi-layer human omics including transcriptomics, germline variants, mosaic chromosomal alterations, and plasma proteomics

◯ Ryuya Edahiro[1, 2)], Go Sato[1, 2, 3)], Tatsuhiko Naito[1, 2)], Yuya Shirai[1, 2)], Atsushi Kumanogoh[1)], Yukinori Okada[1, 2, 3)]

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WS25-22-P

Proteasome mutant mice develop lung lesions with age

◯ Hiroaki Hemmi[1, 2)], Kohei Murakami[1)], Jiro Miyamae[1)], Izumi Sasaki[2)], Nobuo Kanazawa[3)], Tsuneyasu Kaisho[4)]

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WS25-23-O/P

Discovery of a shared disease-associated gene module across multiple autoinflammatory diseases and therapeutic implications

◯ Ikuo Takazawa[1)], Haruka Tsuchiya[1)], Takahiro Itamiya[1, 2)], Harumi Shirai[1)], Yumi Tsuchida[1)], Yasuo Nagafuchi[1, 2)], Hirofumi Shoda[1)], Tomohisa Okamura[1, 2)], Keishi Fujio[1)]

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WS25-24-P

iPSC-Based Analysis of Neutrophil Dysfunction in PSTPIP1-Related Autoinflammatory Syndromes

◯ Fumiko Ozaki[1, 2)], Toshiaki Ohteki[1)], Tomohiro Morio[2, 3)]

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WS25-25-O/P

Aberrant Multicellular Interferon Production and Responses Underlie Adar1 Mutation-Driven Aicardi-Goutières Syndrome-like Encephalopathy

◯ Hyebin Yoo[1)], Taisuke Nakahama[2)], Reiichi Sugihara[3)], Yuki Kato[4)], Yukio Kawahara[5)]

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WS25-26-P

Functional analysis of UBA1 mutations responsible for VEXAS syndrome

◯ Yuma Sakamoto, Masanori Iseki, Nobuyasu Baba, Tomoyuki Mukai

Kawasaki Medical School

WS25-27-O/P

A human COMMD8 variant causes inborn errors of humoral immunity by impairing B cell migration

◯ Mizuki Kishi[1)], Taiichiro Shirai[1, 2)], Kazuhiro Suzuki[1, 2, 3)]

[1)]Laboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, The University of Osaka, Japan, [2)]Department of Immune Response Dynamics, Research Institute for Microbial Diseases, The University of Osaka, Japan, [3)]Center for Infectious Disease Education and Research, The University of Osaka, Japan

WS25-28-P

Combined Immunodeficiency and Ataxia-Telangiectasia: challenges in diagnostic and management

◯ Teo Wijaya, Ketut Dewi Kumara Wati

Department of Child Health, Medical Faculty of Udayana University, Ngoerah Hospital, Denpasar, Bali, Indonesia

WS25-29-P

Characterization of human immune cells in humanized NOG-IL-34 Tg mice under germ-free environment

◯ Ikumi Katano, Yuyo Ka, Iyo Ootsuka, Kayo Tomiyama, Ryoko Nozu, Misa Mochizuki, Kenji Kawai, Riichi Takahashi, Takeshi Takahashi

CIEM

WS25-30-P

Leak expression in Cre-dependent DNA constructs assessed in the mouse genome using sensitive bioluminescent reporter

◯ Toshiaki Nakashiba[1)], Takashi Sugiyama[2)], Satoshi Iwano[3, 4)], Atsushi Yoshiki[1)], Mizuho Iwama[1)], Atsushi Miyawaki[3)], Kuniya Abe[1)]

[1)]RIKEN BRC, [2)]Evident Corporation, [3)]RIKEN CBS, [4)]University of Miyazaki

WS25-31-P

Development of a Humanized Rat Model for Human HSC Xenotransplantation

◯ Ryuya Iida[1, 2)], Saeko Ishida[1)], Kazuto Yoshimi[1, 3)], Takao Yogo[4)], Satoshi Yamazaki[4)], Tomoji Mashimo[1, 3)]

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December 12

WS26 Cell death and innate lymphocytes

WS26-01-P

Porphyromonas gingivalis-derived LPS induces caspase-4-dependent IL-18 maturation and pyroptosis

◯ Eisuke Domae, Taiki Mori, Mariko Hanaoka, Takeshi Into

Asahi University

WS26-02-O/P

Caspase-12 functions as a pattern recognition receptor that triggers pyroptosis via gasdermin D activation in response to bacterial lipoproteins

◯ Shenghui Zhi, Kohsuke Tsuchiya

Kanazawa University

WS26-03-P

Impact of Acinetobacter LPS-induced gasdermin D-mediated IFN-γ release on infection pathogenesis

◯ Yasuyuki Matsuda[1)], Hajime Yamauchi[1)], Go Kamoshida[2)], Tsukasa Shiraishi[4)], Shin-ichi Yokota[3)], Hideki Hara[1)]
[1)]Asahikawa Medical University, [2)]Meiji Pharmaceutical University, [3)]Sapporo Medical University, [4)]Wayo Women's University

WS26-04-O/P

Single-cell analysis reveals cell death of a monocyte subset driving NLRP3-mediated IL-1ß secretion in human inflammation

◯ Kentaro Kato[1)], Lieselotte Vande Walle[2)], Mai Yamagishi[3)], Takashi Kamatani[4)], Masaki Shimizu[5)], Takumi Takizawa[6)], Junko Takita[1)], Ryuta Nishikomori[7)], Osamu Ohara[8)], Yoshitaka Shirasaki[9)], Mohamed Lamkanfi[2)], Kazushi Izawa[1)]
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WS26-05-P

Microbiota-derived peptide corisin induces apoptosis in podocytes and renal tubular epithelial cells

◯ Valeria Fridman[1)], Taro Yasuma[1, 2)], Tomoko Ano[1)], Chisa Inoue[2)], Yuko Okano[2)], Atsuro Takeshita[1, 2)], Kota Nishihama[2)], Corina Gabazza[1)], Masaaki Toda[1)], Esteban Gabazza[1)]
[1)]Department of Immunology, Mie University Graduate School of Medicine, [2)]Department of Diabetes & Endocrinology, Mie University Graduate School of Medicine

WS26-06-P

Vγ6 γδ T cells exacerbate inflammatory responses and ischemic tissue damage acute phase after Ischemic stroke

◯ Shinya Hatano, Takaharu Obuchi, Ako Matsui, Minako Ito
Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS26-07-O/P

PP2A negatively controls NK cell proliferation and trafficking to maintain homeostasis in peripheral tissues

◯ Yui Shinzawa[1, 2, 3)], So-Ichiro Sasaki[3)], Sadahiro Iwabuchi[4)], Shinichi Hashimoto[5)], Manabu Kawada[6)], Makoto Kurachi[2)], Yoshihiro Hayakawa[3)]
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WS26-08-O/P

FURIN is essential for allergic airway inflammation via regulating ILC2 effector function

◯ Takuya Yashiro[1)], Asuka Akamatsu[1)], Kazuyo Moro[1, 2)]
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WS26-09-P

TL1A/DR3 signaling mediates steroid insensitivity in ILC2s through the activation of the noncanonical NF-κB pathway

◯ Hiromi Matsuyama, Kentaro Machida, Yoichi Dotake, Takahiro Matsuyama, Koichi Takagi, Kentaro Tanaka, Hiromasa Inoue
Department of Pulmonary Medicine, Graduate School of Medical and Dental Sciences, Kagoshima University

WS26-10-O/P

LTi-like cells form gut lymphoid tissues through distinctive Runx/Cbfβ-dependent differentiation

◯ Reo Kobayashi[1)], Takuma Fukui[1)], Eriko Sumiya[2)], Shinichiro Sawa[1)]
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WS26-11-P

Epigenomics of Asian Atopic Dermatitis - From phenotypes to endotypes

◯ Anand Kumar Andiappan[1)], Jing Hui Low[2)], Shi Yong Neo[2)], Joni Chong[2)], Jocelyn Ong[2)], Jay Shin[3)], Yik Weng Yew[4)], Steven Thng[4)], Tim Stuart[3)], John Common[1)]
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WS26-12-O/P

Regulatory mechanism of glycosphingolipid expression in mouse NK cell lineage

◯ Luckman Bagas Dwiyana[1)], Ka He[1)], Kazuyoshi Takeda[2)], So-ichiro Sasaki[1)], Yoshihiro Hayakawa[1)]

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WS26-13-P

Adenine-induced renal fibrosis in CD1d-knockout mice deteriorate compared with that in wild-type mice

◯ Hiroki Ishikawa[1)], Yoshihiro Kuno[1, 2)], Ryuichi Nagashima[1, 3)], Yasunari Matsuzaka[1)], Chikara Kohda[1)], Takeo Isozaki[4)], Hirotaka Kuwata[5)], Masayuki Iyoda[1, 2)]

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WS26-14-O/P

NKT cells mediate germinal center priming and enhance humoral response induced by a novel pneumococcal vaccine

◯ Koji Hayashizaki[1, 2)], Shogo Takatsuka[3)], Taku Ikegami[1)], Toshio Kanno[4)], Masato Kubo[5)], Makoto Tsuiji[6)], Yoshimasa Takahashi[2)], Daisuke Kitamura[7)], Yusuke Endo[4)], Yuki Kinjo[1, 2)]

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WS26-15-P

Dectin-1 is involved in subset formation of invariant Natural Killer T cells in thymus

◯ Taiki Oyama, Kazuhiko Takahara

Kyoto University

WS26-16-O/P

Gasdermin-independent release of IL-1 family cytokines drives skin inflammation induced by Caspase-8 dependent keratinocyte death

◯ Masahiro Nagata[1, 2, 4)], Laurens Wachsmuth[1, 2)], Eunjin Ju[1, 2)], Yasmin Carvalho Schäfer[1, 2)], Remzi Onur Eren[1, 2)], Manolis Pasparakis[1, 2, 3)]

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WS26-17-P

Monosodium urate crystals are uptaken by HUVEC and change the gene expression

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WS26-18-P

Inhibition of miR-511-3p alleviates septic inflammation via recovering PTCH1 expression

◯ Eun Jeong Park[1)], Xi Deng[1)], Eiji Kawamoto[2)], Motomu Shimaoka[1)]

[1)]Mie University Graduate School of Medicine, [2)]Mie University Hospital

WS26-19-P

Elucidating Influenza A induced trained immunity of respiratory epithelial cells

◯ Risa Takahashi[1, 2)], Hiroshi Kiyono[1, 2, 3, 4, 5, 6)], Kohtaro Fujihashi[1, 2, 6, 7, 8)]

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WS27 Dendritic cells, macrophages, granulocytes

WS27-01-P

Regulation of CCL2 expression by KCa3.1 K+ channel and LRRC8A Cl- channel in THP-1-differentiated M2 macrophages

◯ Miki Matsui, Susumu Ohya
Nagoya City University

WS27-02-P

Elucidation of the regulatory mechanism of fibrosis-inducing macrophages mediated by protein crosslinking enzyme

◯ Naoki Shiota, Hideki Tatsukawa, Kiyotaka Hitomi
Cellular Biochemistry Lab., Graduate School of Pharmaceutical Sciences, Nagoya University

WS27-03-P

Evaluation of Inflammatory Response Induced by Different Sizes of Monosodium Urate Crystals

◯ Yamato Okumura[1)], Yuya Haga[1, 2)], Moe Okumura[1)], Kazuma Higashisaka[1, 2, 3)], Yasuo Tsutsumi[1, 2, 4, 5, 6, 7)]
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WS27-04-O/P

Resident bronchus-associated macrophages shape the local inflammatory environment in chronic asthma

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WS27-05-O/P

Specialized immune responses of jawbone macrophages adapted to oral microbial environment

◯ Sumire Kikuchi[1, 2)], Yasuhito Yahara[1, 4)], Narikazu Uzawa[2)], Masaru Ishii[1, 3)]
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WS27-06-P

Biological Effects of Environmentally Relevant Micro- and Nanoplastics on RAW264.7 and THP-1 Cells

◯ Yuya Haga[1, 2)], Sota Manabe[2)], Wakaba Idehara[2)], Mii Hokaku[1)], Phyo Bo Bo Aung[1)], Yuto Motoyama[1)], Ayaha Mori[2)], Hirofumi Tsujino[1, 2, 3)], Haruyasu Asahara[1, 2, 4)], Kazuma Higashisaka[1, 2, 5)], Yasuo Tsutsumi[1, 2, 4, 6, 7, 8)]
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WS27-07-P

FOXO1 Inhibition Attenuates Macrophage Polarization and Fibroblast Activation in Pulmonary Fibrosis

◯ Hinata Wade, Masahiro Kitabatake, Ryutaro Furukawa, Atsushi Hara, Kaito Yasuike, Noriko Ouji-Sageshima, Toshihiro Ito
Department of Immunology, Nara Medical University

WS27-08-P

Non-invasive cell harvesting technology without using Scraper or Trypsin

◯ Eriko Ikeda, Asumi Yoshihara, Yuzo Kasuya
CellSeed. Inc

WS27-09-P

MALAT1 as a HADHB-Interacting LncRNA Regulating Human Macrophage Metabolism

◯ Yuxiang Liu[1, 2)], Yukiteru Nakayama[1)], Katsuhito Fujiu[1)]
[1)]Department of Advanced Cardiology, the University of Tokyo, Tokyo, Japan, [2)]Department of Cell Biology, Institute for Advanced Medical Sciences, Nippon Medical School, Tokyo, Japan

WS27-10-P

ANHs-Modified Thrombin-Binding Aptamer Exhibits Anti-Proliferative Activity and Promotes M1 Macrophage Polarization for Targeting Cancer Cells in Immunotherapy

◯ Tatum Andini
Graduate School of Medicine, The University of Osaka

WS27-11-P

Contribution of the orphan G protein-coupled receptor GPR137B to monocyte-neutrophil differentiation switching

◯ Kaho Kobayashi, Runa Matsumoto, Naoya Mizukami, Zohirul Islam, Takashi Inui, Osamu Ishibashi
Department of Applied Biological Chemistry, Graduate School of Agriculture, Osaka Metropolitan University

WS27-12-P

In vivo Visualization of Macrophage Subpopulations in Stroke Using Quantum Nanosensors

◯ Ayaka Takada[1)], Manami Takahashi[1)], Mariko Handa[1)], Masaki Yoshioka[1)], Kiichi Kaminaga[2)], Chihiro Suzuki[2)], Hiroshi Abe[3)], Yuta Masuyama [3)], Takeshi Ohshima[3)], Ryuji Igarashi[2)], Hiroyuki Takuwa[1)]
[1)]Quantum Neuromapping and Neuromodulation Team, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology, [2)]Future Quantum Sensors Team, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology, [3)]Quantum Materials and Applications Research Center, Takasaki Institute for Advanced Quantum Science, National Institutes for Quantum Science and Technology

WS27-13-O/P

Macrophage-derived gelsolin promotes fibroblast migration during skin wound healing

◯ Eri Toyohara[1, 2)], Fumiyuki Sasaki[2)], Teruyuki Dohi[1)], Masumi Shimizu[2)], Eriko Koike[2)], Rei Ogawa[1)], Rimpei Morita[2)]
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WS27-14-P

A mechanism of NLRP3 inflammasome regulation by TAK1-binding protein 2 (TAB2)

◯ Giichi Takaesu, Tanveer Ali, Goro Matsuzaki
University of the Ryukyus

WS27-15-P

Fibroblast-Mediated Loss of Red Pulp Macrophages Exacerbates Sepsis Following Viral Infection

◯ Keishi Etori[1)], Shigeru Tanaka[1)], Kohtaro Fujihashi[2, 3, 4, 5)], Shin-ichi Koizumi[6)], Shinichiro Sawa[6)], Tsuneyasu Kaisho[7)], Wataru Ise[8)], Shintaro Shichinohe[9)], Tokiko Watanabe[9)], Hiroshi Nakajima[1)]
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WS27-16-P

The role of MG in gut-brain axis ~ A central regulator of colitis pathology?~

◯ Wataru Shibata
Keio University School of Medicine

WS27-17-P

Monophosphoryl Lipid A Regulates Liver Macrophage Function and Exerts Rapid Protective Effects against Septic Shock

◯ Ryohei Suematsu[1)], Hiroyuki Nakashima[1)], Bradley Kearney[1)], Kohei Yamada[1)], Kazuma Mori[1)], Azusa Kato[1, 2)], Masafumi Saito[1)], Masahiro Nakashima[1)], Takeshi Ono[1)], Manabu Kinoshita[1)]
[1)]National Defense Medical College, [2)]Saitama Medical University

WS27-18-P

FROUNT Deficiency Induces a Micro-Activated Macrophage Basal State with Elevated Negative Feedback

◯ Etsuko Toda[1)], Yasuhiro Terasaki[1)], Akira Shimizu[1)], Kouji Matsushima[2)], Yuya Terashima[2)]
[1)]Nippon Medical School, [2)]Tokyo University of Science

WS27-19-O/P

Distinct TAM Subset with Cross-Dressing Capability Determines the Bifurcation of Tumor Immunity

◯ Kanako Shimizu[1)], A Sanpei[1)], Jun Nakabayashi[2)], Yan Liu[1)], Jun Shinga[1)], An Nakazato[1)], Shin-ichiro Fujii[1, 3)]
[1)]RIKEN, IMS, [2)]Institute of Science Tokyo, [3)]DMP, RIKEN

WS27-20-P

Sphingosine-1-phosphate lyase is a potential therapeutic target for acute and chronic inflammatory diseases

◯ Fumiyuki Sasaki, Masumi Shimizu, Hinata Hirashima, Misaki Wakasugi, Tatsunori Kitahara, Moeko Uchida, Akihiro Nawata, Takamasa Akiyama, Rimpei Morita
Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan

WS27-21-P

Cross-dressing is enhanced by polyI:C

◯ Yuzuki Yamamoto, Miyu Fujiwara, Ren Taniguchi, Kentaro Kishimoto, Masafumi Nakayama
Ritsumeikan University

WS27-22-P

Gut dysbiosis drives the impairment of oral tolerance mediated through mucosal dendritic cell dysfunction

◯ Tomohiro Fukaya, Tomofumi Uto , Shuya Mitoma , Katsuaki Sato
Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki

WS27-23-P

Crucial role of dendritic cells in the generation of anti-tumor T-cell responses and immunogenic tumor microenvironment to suppress tumor development

◯ Shuya Mitoma, Tomofumi Uto, Tomohiro Fukaya, Katsuaki Sato
Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki

WS27-24-P

BATF Regulates T cell Response via Dendritic Cell Function

◯ Tomoko Asatsuma-Okumura, Ryuji Owada, Yoshiko Iwai
Nippon Medical School

WS27-25-P

Hu-PBL-hIL-4-Tg mice as contact dermatitis model mice induced by DNFB may contribute to the development of treatments for contact dermatitis

◯ Ayako Hirota[1)], Shino Oshima[2)], Mariko Miyazawa[3)], Yuki Hoshino[2)], Hitoshi Ishimoto[3)], Takashi Shiina[2)], Akiko Kanamori[4)], Tomotaka Mabuchi[1)], Yoshie Kametani[2)]
[1)]Department of Dermatology, Tokai University School of Medicine, [2)]Department of Molecular Life Science, Tokai University School of Medicine, [3)]Department of Obstetrics and Gynecology, Tokai University School of Medicine, [4)]Department of Bioengineering, School of Engineering , Institute of Advanced Biosciences

WS27-26-P

Functional Regulation of Human Dendritic Cells through Control of Amino Acid Metabolism

◯ Takumi Murayama[1)], Airi Negami[1)], Junya Yamasaki[1)], Junya Ohtake[3, 4)], Hidemitsu Kitamura[1, 2, 3, 4)]
[1)]Course of Biomedical Engineering, Graduate School of Life Sciences, Toyo University, [2)]Department Biomedical Engineering, Faculty of Science and Engineering, Toyo University, [3)]Research Facility Center, Asaka, Toyo University, [4)]Research Center, Biomedical Engineering, Toyo University

WS27-27-P

Involvement of XCR1-positive dermal dendritic cells in the transport of skin self-antigen

◯ Miya Yoshino, Koji Tokoyoda
Tottori University

WS27-28-P

Immunostimulatory activity of Heyndrickxia coagulans SANK70258 targeting dendritic cells

◯ Hotaka Okamura[1)], Niya Yamashita[1)], Shiori Suzuki[1)], Naoto Ito[1)], Masanori Aida[2)], Ryouichi Yamada[2)], Kazuki Nagata[1)], Chiharu Nishiyama[1)]
[1)]Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, [2)]Mitsubishi Chemical Corporation

WS27-29-P

Reduced Antigen-Presenting Cell Function Associated with Lysosomal Dysfunction in Older Adults

◯ Mengqian Li, Kohei Kometani, Norihide Jo, Yoko Hamazaki
Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University

WS27-30-P

Molecular mechanisms of butyrate-induced development of conventional dendritic cells and increased expression of the Itga4 gene

◯ Weiting Zhao, Kazuki Nagata, Risako Akiyama, Chiharu Nishiyama
Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science.

WS27-31-P

Generation of functional antigen-presenting cells from iPSCs for immunological applications

◯ Tomoki Muramatsu, Yosuke Harada, Ittetsu Takahashi, Miki Fujikado, Waka Lin, Yuichi Eguchi
Biomedical Business Center, Ricoh Company, Ltd.

WS27-32-P

SIRPα promotes cDC2A survival by preventing Nr4a3 upregulation and the development of autoimmunity

◯ Yasuyuki Saito[1, 2], Satomi Komori[2], Tania Afroj[1, 2], Tomoko Takai[2], Takenori Kotani[3], Yoji Murata[3], Takashi Matozaki[2]

[1]Department of Immunology, Faculty of Medicine, Shimane University, [2]Division of Bigosgnal Regulation, Department of Biochemistry and Molecular Biology, Kobe Univerisity Graduate School of Medicine, [3]Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine

WS27-33-P

A Novel mRNA Vaccine Formulation Elicits Anticancer Immunity through the Splenic Dendritic Cells

◯ Mahmoud A. Younis[1, 2, 3], Yusuke Sato[1, 2], Hideyoshi Harashima[1, 2]

[1]Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan, [2]Institute of Vaccine Research and Development (IVReD), Hokkaido University, Sapporo 001-0021, Japan, [3]Faculty of Pharmacy, Assiut University, Assiut 71526, Egypt

WS27-34-O/P

Immunological characterization of neutrophils in proteasome subunit β-type 9 variant mouse

◯ Izumi Sasaki[1], Yuko Ishida[2], Shiori Kaji[3], Takashi Kato[4], Daisuke Okuzaki[5], Hiroaki Hemmi[6], Toshikazu Kondo[2], Tsuneyasu Kaisho[1]

[1]Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, [2]Department of Forensic Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama, 641-8509, Japan, [3]Second Department of Internal Medicine, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, [4]Department of Rheumatology and Clinical Immunology, Wakayama Medical University, 811-1 Kimiidera, Wakayama City, Wakayama 641-8509, Japan, [5]Laboratory of Human Immunology (Single Cell Genomics), WPI Immunology Frontier Research Center, The University of Osaka, Osaka 565-0871, Japan, [6]Laboratory of Immunology, Faculty of Veterinary Medicine, Okayama University of Science, Imabari, Ehime 794-8555, Japan

WS27-35-O/P

Alveolar neutrophil mitochondria promote pulmonary fibrosis via regulation of pro-fibrotic factors

◯ Yoshinari Nakatsuka[1], Atsuyasu Sato[1], Yutaka Hirayama[1], Kazuma Yoshida[2], Yohei Korogi[1], Shigeru Ashino[1], Masanori Matsumoto[3], Tomohiro Handa[4], Gabriel Nuñez[5, 6], Toyohiro Hirai[1]

[1]Department of Respiratory Medicine, Graduate School of Medicine, Kyoto University, [2]Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, [3]Department of Pathobiology, University of Illinois at Urbana-Champaign, [4]Department of Advanced Medicine for Respiratory Failure, Graduate School of Medicine, Kyoto University, [5]Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, [6]Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS27-36-O/P

The expression and physiological roles of Mrgprb2/MRGPRX2

◯ Ayako Kaitani[1], Kumi Izawa[1], Tomoaki Ando[1], Akihisa Yoshikawa[1, 2], Mayu Shinagawa[1], Mio Sasaki[1], Akie Maehara[1], Nobuhiro Nakano[1], Masahiro Nakamura[2], Ko Okumura[1], Jiro Kitaura[1]

[1]Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, [2]Department of Otorhinolaryngology, Juntendo University Graduate School of Medicine

WS27-37-O/P

Eosinophil-derived IL-27 promotes colon Th17 differentiation

◯ Jun Kasamatsu[1], Hiroki Yoshida[2], Katsuyuki Yui[3], Elizabeth A Jacobsen[5], Marco Colonna[4], Hiromitsu Hara[1]

[1]Kagoshima University, [2]Saga University, [3]Nagasaki University, [4]Washington University in St. Louis, [5]Mayo Clinic Arizona

WS27-38-P

Standardization and Implementation of PBMC Banking Using a Next-Generation Automated PBMC Isolation Device with an Electrode Tip

◯ Hiromitsu Tazawa[1], Osamu Kikuchi[1, 2], Yuki Furuya[1], Yuko Matsuura[1], Miki Okita[1], Kazuhiro Nakamura[4], Osamu Segawa[4], Kazumi Sawagami[5], Hideji Tajima[5], Manabu Muto[1, 3]

[1]Clinical Bioresource Center, Kyoto University Hospital, [2]Center for Cancer Immunotherapy and Immunobiology, Kyoto University, [3]Medical Oncology, Kyoto University Hospital, [4]Precision System Science Inc., [5]Universal Bio Reserach Ic.

December 12

WS28 Bacterial, Fungal, and Parasitic Infections and Immunity

WS28-01-O/P

Neutrophils as Potential Effector Cells in Host Resistance to Tick Infestation

◯ Jiali Yan[1], Tetsuro Kobayashi[2], Maki Mizumura[1], Kayoko Yamaji[3], Hirotaka Kanuka[3], Hiroko Matsunaga[4], Haruko Takeyama[4], Kazuyo Moro[1, 2, 5]

[1]Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka, [2]Laboratory for Innate Immune Systems, RIKEN-IMS, [3]Department of Tropical Medicine, Jikei University School of Medicine, [4]Biomolecular Engineering Laboratory, Waseda University, [5]Laboratory for Innate Immune Systems, iFReC, The University of Osaka

WS28-02-P

Attenuation of food allergy symptoms following Sparganum proliferum infection in a mouse model

◯ Akito Fujihira, Akina Ogamino, Taisei Kikuchi
The University of Tokyo

WS28-03-P

Anisakis-specific IgE production is associated with gastric bacteria

◯ Chikako Shimokawa[1)], Tadashi Takeuchi[2)], Hiroshi Ohno[2)], Hajime Hisaeda[1)]
[1)]National Institute of Infectious Diseases, [2)]RIKEN Center for Integrative Medical Sciences (IMS)

WS28-04-P

Potential involvement of ILC2s in promoting parasite maturation and egg production in Schistosoma mansoni

◯ Risa Nakamura[1, 2, 3)], Megumi Hamasaki[1, 2, 3)], Hideki Muto[4)], Shinjiro Hamano[1, 2, 3)]
[1)]Department of Parasitology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, [2)]Nagasaki University Graduate School of Biomedical Sciences Doctoral Leadership Program, [3)]The Joint Usage/Research Center on Tropical Disease, NEKKEN, Nagasaki University, [4)]Biomedical Research Support Center (BRSC), Nagasaki University School of Medicine

WS28-05-P

Diminished Type 2 Immune Response with Aging Is Associated with Reduced Gut Microbiota Reactivity during Nematode Infection

◯ Motoko Morimoto[1)], Sota Tanaka[1)], Kyoko Jinguji[1)], Wakako Ikeda-Ohtsubo[2)]
[1)]Miyagi Univ., [2)]Tohoku Univ.

WS28-06-P

miR-192 Improves Antibody Responses to PCV13 Vaccination in Aged Mice by Modulating Inflammaging

◯ Jinyu Zhao, Yang Ming Sheng , Atsushi Irie, Hiroyuki Oshiumi
Dep Immunol, Grad Sch Med Sci, Kumamoto University

WS28-07-P

Dynamic Immune Cell Heterogeneity Across Progressive Stages of Human Dental Pulp Inflammation Revealed by Single-cell Multiomics

◯ Anunya Opasawatchai[1)], Chawisa Shinsomboon[1)], Richtana Pornsomboonsiri[1)], Akarawin Chowpradith[1)], Ravipa Nunngam[1)], Ponpan Matangkasombut[2)], Varodom Charoensawan[3)], Pornpoj Fuangtharnthip[1)]
[1)]Faculty of Dentistry, Mahidol University, [2)]Faculty of Science, Mahidol University, [3)]Faculty of Medicine, Siriraj Hospital, Mahidol University

WS28-08-P

Prevotella intermedia modulates inflammatory cytokines via T9SS

◯ Poramed Onsoi, Tokuju Okano, Toshihiko Suzuki
Institute of Science Tokyo

WS28-09-P

Chronic oral infection induces cognitive dysfunction by migrating IL-17A producing immune cells to the brain

◯ Sari Kishikawa[1, 2)], Jun-ichi Nagao[1, 2)], Kenji Toyonaga[1, 2)], Aoba Iwanuma[1)], Kanae Negoro-Yasumatsu[1, 2)], Sonoko Tasaki[1)], Satoru Iwai[1)], Yoshihiko Tanaka[1, 2)]
[1)]Section of Infection Biology, Department of Functional Bioscience, Division of Biomedical Sciences, Fukuoka Dental College, [2)]Oral Medicine Research Center, Fukuoka Dental College

WS28-10-P

Janus kinase inhibits inflammation in macrophages with oral bacterial infection

◯ Tokuju Okano, Toshihiko Suzuki
Science Tokyo

WS28-11-O/P

Activation of Gsdmd by Gram-negative bacterial infection and its impact on the pathogenesis

◯ Hideki Hara
Asahikawa Medical University

WS28-12-P

Salmonella enterica serovar Typhimurium T3SS-2 elicits ferroptosis in macrophages

◯ Takeshi Haneda[1)], Hirotaka Hiyoshi[2)], Masahiro Ito[1)], Tsuyoshi Miki[1)], Yun-Gi Kim[1)]
[1)]School of Pharmacy, Kitasato University, [2)]Institute of Tropical Medicine, Nagasaki University

WS28-13-O/P

Comprehensive transcriptomic approaches reveal disturbance of the heterogeneity of host myeloid cells during Salmonella systemic infection

◯ Hirotaka Hiyoshi[1)], Mohamad Al Kadi[2)], Toshio Kodama[1)], Andreas J. Baumler[3)], Daisuke Okuzaki[2)]
[1)]Institute of Tropical Medicine, Nagasaki University, [2)]WPI immunology Research Center, The University of Osaka, [3)]Department of Medical Microbiology and Immunology, University of California at Davis

WS28-14-O/P

Salmonella persists in splenic monocytes without induction of bactericidal activity

◯ Uki Kimura[1)], Karen Saiki[1)], Nobuhiro Matsuyama[1)], Sei Kashima[1)], Akiko Takaya[2, 3)], Koji Tokoyoda[1)]

[1)]Division of Immunology, Faculty of Medicine, Tottori University, Yonago, Japan, [2)]Laboratory of Infection Control Science, Graduate School of Pharmaceutical Science, Chiba University, Chiba, Japan, [3)]Medical Mycology Research Center, Chiba University, Chiba, Japan

WS28-15-P

PLA2G5 is a key driver of hemolysis and disease severity in sepsis

◯ Michihiro Takahama[1, 2)]

[1)]The University of Osaka, [2)]The University of Chicago

WS28-16-P

Tuberculosis vaccine evaluation using a non-human primate model of co-infection with simian immunodeficiency virus and mycobacterium tuberculosis

◯ Natsuko Yamakawa, Yasuhiro Yasutomi

National Institutes of Biomedical Innovation, Health and Nutrition

WS28-17-O/P

Identification of human T cells selectively recognizing non-tuberculous mycobacteria (NTM)

◯ Nanami Kamata[1, 2, 3)], Yoshihiko Hoshino[4)], Nagatoshi Fujiwara[5)], Sho Yamasaki[1, 2, 3, 6)]

[1)]Department of Molecular Immunology, Research Institute for Microbial Diseases, The University of Osaka, [2)]Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), The University of Osaka, [3)]Center for Advanced Modalities and Drug Delivery system (CAMaD), The University of Osaka, [4)]Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases , [5)]Department of Food and Nutrition, Faculty of Contemporary Human Life Science, Tezukayama University , [6)]Center for Infectious Disease Education and Research (CiDER), The University of Osaka

WS28-18-P

Comparative analysis of the host response to the fungal pathogen Sporothrix brasiliensis across different mice strains

◯ Fabio Seiti Yamada Yoshikawa[2)], Sandro Rogerio de Almeida[1)], Shinobu Saijo[2)]

[1)]University of Sao Paulo, [2)]Chiba University

WS28-19-O/P

Mucosal immune network of Th17 cells via gut-mouth axis enhance protection against oropharyngeal candidiasis

◯ Jun-ichi Nagao[1, 2)], Emi Kaji[1)], Sari Kishikawa[1, 2)], Kenji Toyonaga[1, 2)], Sonoko Tasaki[1)], Satoru Iwai[1)], Aoba Iwanuma[1)], Yoshihiko Tanaka[1, 2)]

[1)]Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental Collage, [2)]Oral Medicine Research Center, Fukuoka Dental College

WS28-20-P

Functional analysis of the signaling adaptor protein Card9 in Candida auris invasive infection

◯ Kenji Toyonaga[1, 2)], Sari Kishikawa[1, 2)], Jun-ichi Nagao[1, 2)], Aoba Iwanuma[1)], Satoru Iwai[1)], Arisa Aosaka[1)], Tomoko Nagai[1)], Masayuki Umemura[3)], Sonoko Tasaki[1)], Kanae Negoro-Yasumatsu[1)], Yoshihiko Tanaka[1, 2)]

[1)]Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, [2)]Oral Medicine Research Center, Fukuoka Dental College, [3)]Molecular Microbiology Group, Department of Infectious Diseases, Tropical Biosphere Research Center, and Department of Host Defense, Graduate School of Medicine, University of the Ryukyus

Awards Ceremony and Lectures

Awards Ceremony and Lectures

12 月 11 日（木） Thursday, 11th December

各賞授賞式・受賞講演
Awards Ceremony and Lectures

第 28 回日本免疫学会賞授賞式 / 28th JSI Award Ceremony

第 28 回日本免疫学会賞受賞者
28th JSI Award Winner

「病原体感染やがん化による非自己化細胞と免疫系との相互作用解析」
"Analysis of Interactions Between Infection- and Cancer-Driven Non-Self Cells and the Immune System"
山本　雅裕　氏（大阪大学 微生物病研究所感染病態分野）
Dr. Masahiro Yamamoto, The University of Osaka

第 12 回日本免疫学会ヒト免疫研究賞授賞式 / 12th JSI Human Immunology Research Award Ceremony

第 12 回日本免疫学会ヒト免疫研究賞受賞者
12th JSI Human Immunology Research Award Winner

「腸内共生病原菌を標的としたヒト腸管免疫関連疾患の治療法の開発」
"Targeting Commensal Pathobionts for Innovative Therapies in Human Intestinal Immune Disorders"
植松　智　氏（大阪公立大学大学院医学研究科 医学部ゲノム免疫学）
Dr. Satoshi Uematsu, Osaka Metropolitan University

第 12 回日本免疫学会女性免疫研究者賞授賞式 / 12th JSI Women Immunologist Award Ceremony

第 12 回日本免疫学会女性免疫研究者賞受賞者
12th JSI Women Immunologist Award Winner

「ヒト免疫細胞を微小環境に有する腫瘍モデルを用いたヒトがん免疫制御」
"Immunoregulation of human cancer using the tumor models containing human immune cells in the microenvironment"
幸谷　愛　氏（大阪大学 微生物病研究所 感染腫瘍制御分野）
Dr. Ai Kotani, The University of Osaka

※各種授賞式に引き続き、受賞講演を行います。
*The above Award Lectures will be start following ceremonies.

第 20 回日本免疫学会研究奨励賞授賞式 / 20th JSI Young Investigator Award Ceremony

第 20 回日本免疫学会研究奨励賞受賞者（五十音順）
20th JSI Young Investigator Award Winners

「ウイルス感染症における免疫細胞応答の生体イメージング解析」
“In vivo imaging of cellular pathophysiology in respiratory virus-infected mouse lungs”
植木　紘史　氏（国立国際医療研究所 国際ウイルス感染症研究センター）
Dr. Hiroshi Ueki, National Center for Global Health and Medicine

「RNA ウイルスの病態理解並びに、新規予防法の開発」
“Analysis of RNA virus pathogenicity and development of novel prevention methods”
浦木　隆太　氏（東京大学 国際高等研究所 新世代感染症センター）
Dr. Ryuta Uraki, The University of Tokyo

「炎症・線維化における多様な線維芽細胞サブセットが果たす役割の解析」
“The roles of diverse fibroblast subsets in inflammation and fibrosis”
津久井　達哉　氏（カリフォルニア大学　医学部）
Dr. Tatsuya Tsukui, University of California

「大規模ヒトオミクスデータ解析技術の開発および自己免疫疾患への応用」
“Leveraging Large-scale Human Omics Data for Autoimmune Diseases”
友藤　嘉彦　氏（ハーバード大学 医学部）
Dr. Yoshihiko Tomofuji, Harvard Medical School

※研究奨励賞受賞者の研究課題については、12 月 11 日（木）17 時 5 分からポスター発表をいたします。
*The above JSI Young Investigator Award, Winners’ Posters Discussion will be started from 17:05 on 11th December.

International Immunology Outstanding Merit Award Ceremony

International Immunology Outstanding Merit Award for 2025 Winner

“Synchronized development of thymic eosinophils and thymocytes”
Dr. Ayami Ota, The University of Tokyo

若手免疫学研究推進事業 / Outstanding Young Immunology Researcher Award Winners Introduction

2025 年若手免疫学研究推進事業受賞者（五十音順）
Outstanding Young Immunology Researcher Award 2025Winners

「抗原提示細胞として“真に機能的な”単球由来樹状細胞の生体における意義の解明」
“Exploring the Roles of Authentic Monocyte-derived Dendritic Cells In Vivo”
小原　乃也　氏（京都大学白眉センター兼医生物学研究所）
Dr. Daiya Ohara, Kyoto University

「フロー定量 Mitophagy スコアを統合した骨髄腫進行予測モデル構築」
“Development of Flow Cytometry-Based Mitophagy Scoring System for Predicting Multiple Myeloma Progression”
小西　義延　氏（京都大学医学部附属病院 血液内科）
Dr. Yoshinobu Konishi, Kyoto University Hospital

「血球貪食症候群における生細胞貪食メカニズムとその病理的意義の解明」
“Investigation of the Pathological Impact of Live Cell-Engulfing Macrophages in Hemophagocytic Syndrome”
藤井　健太郎　氏（医薬基盤・健康・栄養研究所 創薬イメージングプロジェクト）
Dr. Kentaro Fujii, National Institutes of Biomedical Innovation, Health and Nutrition

若手女性研究者研究支援事業 / Outstanding Young Women Researcher Award Winners Introduction

2025 年若手女性研究者研究支援事業受賞者（五十音順）
Outstanding Young Women Researcher Award 2025Winners

「腸内微生物由来代謝物による G タンパク質共役型受容体活性化を介した腸管恒常性維持機構の解明」
“Investigating mechanisms of intestinal homeostasis mediated by microbiota-derived metabolite–GPCR signaling”
猪頭　英里　氏（大阪大学大学院医学系研究科 免疫制御学）
Dr. Eri Igashira, The University of Osaka

「骨転移巣特異的マクロファージによる免疫抑制機構の解明」
“Elucidation of the immunosuppressive functions of macrophages in bone metastasis”
橋本　恭子　氏（東京大学大学院医学系研究科 免疫学教室）
Dr. Kyoko Hashimoto, The University of Tokyo

「きぼう」プロジェクト　免疫学博士課程学生支援　採択者紹介 / “Kibou Projects” Scholarship for Doctoral Students in Immunology Winners Introduction

2023 年度採択者（五十音順）
2023 Winners

「関節リウマチ炎症滑膜内における B 細胞応答の解明」
“Investigation of B cell responses in the synovium of rheumatoid arthritis”
赤嶺　綸子　氏（京都大学）
Ms. Rinko Akamine, Kyoto University

「新生児期の免疫異常と皮膚 dysbiosis が引き起こすアトピー性皮膚炎“発症起点”の解明」
“Elucidating the mechanism of atopic dermatitis triggered by neonatal skin dysbiosis and immune imbalance”
伊藤　朋香　氏（大阪大学）
Ms. Tomoka Ito, The University of Osaka

「脳神経細胞障害からの回復過程における内因性オピオイドの役割」
“Role of endogenous opioids in the recovery process from brain neuronal damage.”
川副　明生　氏（九州大学）
Ms. Mio Kawazoe, Kyushu University

「新規免疫制御因子の遺伝子変異を伴う先天性免疫異常症の病態解明」
“Elucidating the pathogenesis of inborn errors of immunity associated with genetic mutations of a novel immunoregulatory molecule”
喜枝　美月　氏（大阪大学）
Ms. Mizuki Kishi, The University of Osaka

「可溶型 CD155 の除去によるがん免疫抑制機構の解明」
“Elucidation of the role of soluble CD155 in tumor immunity”
木下　翔太　氏（筑波大学）
Mr. Shota Kinoshita, University of Tsukuba

「抗生物質寛容型細菌の免疫逃避機構の解明」
“Strategies of antibiotic tolerant bacteria for overcoming host immunity”
木村　宇輝　氏（鳥取大学）
Mr. Uki Kimura, Tottori University

「MHC クラスⅡによる新規腸管免疫制御機構解明」
“Regulation of immune response in intestine by MHC class II molecules”
千菊　智也　氏（東京大学）
Mr. Tomoya Sengiku, The University of Tokyo

「自己炎症性疾患の特徴をもつ免疫介在性疾患の網羅的解析」

“Comprehensive analysis of immune-mediated diseases with characteristics of autoinflammatory disorders”

高澤　郁夫　氏（東京大学）

Mr. Ikuo Takazawa, The University of Tokyo

「ストレス造血における造血幹細胞における運命制御のメカニズムの解明」

“Elucidation of mechanisms that regulate hematopoietic stem cell fate decisions under stress hematopoiesis”

虎谷　和則　氏（京都大学）

Mr. Kazunori Toratani, Kyoto University

2024 年度採択者（五十音順）
2024 Winners

「小腸から胸腺へ移行した樹状細胞による新たな食物アレルギー回避機構の立証」

“Thymic dendritic cells involved in T cell selection migrate from the small intestine”

石井　寛斗　氏（横浜市立大学）

Mr. Hiroto Ishii, Yokohama City University

「腸管上皮 Microfold 細胞欠失による腸内細菌叢への影響と T2D モデルとの関連についての探索」

“Investigating the Impact of Intestinal Microfold Cells on Gut Microbiota Structure and Function Using Synthetic Bacterial Community”

伊藤　光希　氏（東京理科大学）

Ms. Mitsuki Itou, Tokyo University of Science

「腸管上皮細胞のレチノイド X 受容体を介したバリア機構の解明」

“Elucidation of Barrier Mechanisms Mediated by Retinoid X Receptor in Intestinal Epithelial Cells”

杉山　ひなた　氏（慶應義塾大学）

Ms. Hinata Sugiyama, Keio University

「抗ウイルス応答におけるゴルジ体ストレス応答の機能解析」

“Functional analysis of Golgi Stress Response (GSR) in antiviral response”

豊留　里奈　氏（奈良先端科学技術大学院大学）

Ms. Rina Toyodome, Nara Institute of Science and Technology

「RNA 構造を標的とした核酸医薬による抗腫瘍免疫制御法の開発」

“Development of antitumor immune control strategy by nucleic acid medicine targeting RNA structure.”

村岡　慎太郎　氏（京都大学）

Mr. Shintaro Muraoka, Kyoto University

「百寿者腸内細菌による新規ステロイド代謝経路と新規ステロイド化合物の解明とその免疫系への影響」

“Elucidation of a Novel Steroid Metabolism Pathway and Novel Steroid Compounds by Centenarians’ Gut Microbiota, and Their Impact on the Immune System”

渡部　靖郎　氏（東京大学）

Mr. Yasuo Watanabe, The University of Tokyo

「パイロトーシスを介した炎症を制御する新たな分子の機能解析」

“Functional analysis of a new molecule that regulates pyroptosis-induced inflammation”

生駒　健太　氏（大阪大学）

Mr. Kenta Ikoma, The University of Osaka

「難治性 B 細胞性急性リンパ性白血病の悪性化に関わる炎症性サイトカインの役割の解明」

“The role of inflammatory cytokines in the malignant transformation of refractory B-cell acute lymphoblastic leukemia”

鈴木　藍彩　氏（東京理科大学）

Ms. Aisa Suzuki, Tokyo University of Science

2025 年度採択者（五十音順）
2025 Winners

「ストローマ免疫学を基盤とした治療抵抗性関節リウマチの機序の解明と新規治療法の開発」

“Elucidation of the mechanisms underlying difficult-to-treat rheumatoid arthritis based on stromal immunology and the development of novel therapeutic strategies”

石原　啓成　氏（慶應義塾大学）

Mr. Hironari Ishihara, Keio University

「転写因子 RelB による胸腺髄質上皮細胞の分化制御機構と自己免疫抑制機構の解明」

“Dual function of RelB in medullary thymic epithelial cell differentiation required for preventing autoimmunity”

遠藤　凛　氏（横浜市立大学）

Ms. Rin Endo, Yokohama City University

「アダプター分子 MyD88 による記憶ヘルパー T 細胞の形成制御」

“MyD88 regulates the formation of memory T helper cells”

大木　こころ　氏（鳥取大学）

Ms. Kokoro Ohki, Tottori University

「制御性 T 細胞エピゲノム形成機構の解明」

“Elucidating the mechanism of epigenetic regulation in regulatory T cell differentiation in vitro”

長谷川　竜成　氏（東京大学）

Mr. Tatsumasa Hasegawa, The University of Tokyo

「新規免疫偏向性解析系を用いた LAG-3 による免疫制御機構の解明」

“Elucidating the role of LAG-3 in shaping the immunodominance hierarchies of T cell responses”

藤塚　偉利哉　氏（東京大学）

Mr. Iriya Fujitsuka, The University of Tokyo

「活性化免疫受容体 DNAM-1 に着目した炎症性腸疾患の病態解明と新規治療法の提案」

“Elucidation of the pathogenesis of inflammatory bowel disease focusing on the activation immune receptor DNAM-1 and proposal of novel therapeutic approaches”

井出　夏暉　氏（筑波大学）

Mr. Natsuki Ide, University of Tsukuba

「統合的な口腔 - 他・多臓器 - 関節連関メカニズムの解明」
“Elucidation of integrated mechanisms in the oral-joint axis”
鈴木　健大　氏（大阪大学）
Mr. Takehiro Suzuki, The University of Osaka

「がんワクチンと一過性 Treg 除去法の併用による腫瘍治療と再発・転移予防」
“Combination of Cancer Vaccine and Transient Treg Depletion for Advanced Treatments of Cancer”
LYU QIAN　氏（大阪大学）
Ms. Qian Lyu, The University of Osaka

※「きぼう」プロジェクト免疫学博士課程学生支援の採択者の研究課題については、12 月 11 日（木）17 時 5 分からポスター発表をいたします。

* The above “Kibou Projects” Scholarship for Doctoral Students in Immunology, Winners’ Poster Discussion will be started from 17:05 on 11th December.

サマースクール　優秀ポスター賞　受賞者紹介 / Summer School Outstanding Winners Introduction

「制御性 T 細胞エフェクター・メモリー分化に伴う TCR レパトア選択原理の解明」
“Similar autoreactive regulatory T cell clones are selected during early ontogeny and expand under homeostatic perturbations”
塚崎　礼子　氏（東京大学）
Ms. Reiko Tsukazaki, The University of Tokyo

「炎症応答制御に関与する新規環状 RNA の同定と機能解析」
“Identification and functional analysis of inflammation-regulated circular RNAs controlling cytokine expression in macrophages”
廣木　秀哉　氏（奈良先端科学技術大学院大学）
Mr. Shuya Hiroki, Nara Institute of Science and Technology

※サマースクール優秀ポスター賞受賞者の研究課題については、12 月 11 日（木）17 時 5 分からポスター発表をいたします。

* The above Summer School Outstanding, Winners’ Posters Discussion will be started from 17:05 on 11th December.

Technical Seminar

Technical Seminar

11:40 ~ 12:40, Wednesday, December 10

T01 Technical Seminar 01 Room D: 407

Chairperson: Naoki Hosen (Department of Hematology and Oncology, Graduate School of Medicine, The University of Osaka)

T01 A novel platform for investigating the immunological landscape of the tumor microenvironment

Hiroyoshi Nishikawa Division of Cancer Immunology, Research Institute, National Cancer / Division of Cancer Immune Multicellular System Regulation, CCII, Graduate School of Medicine, Kyoto University / Department of Immunology, Nagoya University Graduate School of Medicine

Nippon Becton Dickinson Company, Ltd.

11:40 ~ 12:40, Wednesday, December 10

T02 Technical Seminar 02 Room E: 408

Chairperson: **Ryo Shinnakasu** (**Ehime University, Advanced Research Support Center, Division of Medical Research Support, Section of Infectious Disease Research Support**)

T02 Single B cell analysis of humoral immunity in vaccination and autoimmune disease

Takeshi Inoue Department of Molecular Systems Immunology, The UTOPIA Center, The University of Tokyo

TOMY DIGITAL BIOLOGY CO., LTD.

11:40 ~ 12:40, Thursday, December 11

T03 Technical Seminar 03 Room D: 407

Chairperson: Hiroshi Takayanagi (Department of Immunology,Graduate School of Medicine and Faculty of Medicine, The University of Tokyo)

T03 Can Artificial Stimulation in Neural Circuits Enable Treatment of Inflammatory Diseases?

Masaaki Murakami Institute for Genetic Medicine, Hokkaido University / Institute for Quantum Life science, QST / National Institute for Physiologic

Beckman Coulter K.K.

11:40 ~ 12:40, Thursday, December 11

T04 Technical Seminar 04 Room E: 408

T04 Deciphering the tissue cell ecosystem with multimodal analysis

Hiroyuki Yoshitomi Department of Immunology, Graduate School of Medicine, Kyoto University / Institute for the Advanced Study of Human Biology, Kyoto University

10x Genomics

11:40 ~ 12:40, Friday, December 12

T05 Technical Seminar 05 Room D: 407

T05 Human Blood Cell Analysis Using Imaging Flow Cytometry

Tomohiro Takeda Kansai University of Health Sciences Faculty of Health Science Department of Clinical Laboratory

Themo Fisher Scientific

11:40 ~ 12:40, Friday, December 12

T06 Technical Seminar 06 Room E: 408

T06 Leveraging High-Parameter Flow Cytometry to Explore Immune Cell Dysregulation in STAT1 GOF Patients and Other Inborn Errors of Immunity

Cheng-Lung Ku Center for the Molecular and Clinical Immunology, Chang Gung University, Taiwan

Cytek Japan Corporation

11:40 ~ 12:40, Friday, December 12

T07 Technical Seminar 07 Room F: 409

Chairperson: **Hideki Ueno** (**Department of Immunology, Graduate School of Medicine, Kyoto University**)

T07 Integrative Understanding of Immune Cell Diversity, Interactions, and Spatial Context

Satoshi Sagara SCRUM Inc. / Element Biosciences

SCRUM Inc.

Clinical Seminar

Clinical Seminar

11:40 ~ 12:40, Wednesday, December 10

C01 Clinical Seminar 01 Room C: Small Hall

Chairperson: Hiroaki Niiro (Department of Medical Education, Graduate School of Medical Sciences, Kyushu University)

C01 Elucidating the Relationship Between Clinical Phenotypes of SLE and Type I Interferon

Keishi Fujio Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo

AstraZeneca K.K.

11:40 ~ 12:40, Wednesday, December 10

C02 Clinical Seminar 02 Room F: 409

Chairperson: Tomohiro Kurosaki (Laboratory for Lymphocyte Differentiation, RIKEN IMS)

C02 Pathogenic and regulatory roles of B cells in autoimmunity

Yoshihiro Baba Medical Institute of Bioregulation, Kyushu University

Otsuka Pharmaceutical Co., Ltd.

11:40 ~ 12:40, Thursday, December 11

C03 Clinical Seminar 03 Room B: Medium Hall

Chairperson: Kenji Kabashima (Department of Dermatology, Kyoto University Graduate School of Medicine)

C03-01 Is the evidence level of mata-analysis truly the highest?

Satoshi Morita Department of Biomedical Statistics and Bioinformatics, Kyoto University Graduate School of Medicine

C03-02 Management of pruritus in atopic dermatitis

Gyohei Egawa Department of Dermatology, Kagoshima University

Pfizer Japan Inc.

11:40 ~ 12:40, Thursday, December 11

C04 Clinilcal Seminar 04 Room F: 409

Chairperson: Naoki Hosen (Department of Hematology and Oncology, The University of Osaka Graduate School of Medicine)

C04-01 Targeting the neonatal Fc receptor in IgG-mediated autoimmune diseases

Peter Ulrichts argenx BVBA

C04-02 FcRn Blocker in Neurological Disorders: Clinical Implementation and the Role of Efgartigimod in gMG and CIDP

Motoki Fujimaki Department of Neurology, Faculty of Medicine, University of Tsukuba

argenx Japan K.K.

11:40 ~ 12:40, Friday, December 12

C05 Clinical Seminar 05 Room C: Small Hall

Chairperson: Koichi Amano (Department of Rheumatology and Clinical Immunology, Saitama Medical Center, Saitama Medical University)

C05 The Pathogenic Role of Eosinophils in Eosinophilic Granulomatosis with Polyangiitis

Naoto Tamura Department of Internal Medicine and Rheumatology , Juntendo University School of Medicine

AstraZeneca K.K.

Afternoon Seminar

Afternoon Seminar

12:50 ~ 13:50, Wednesday, December 10

A01 Afternoon Seminar 01 Room B: Medium Hall

Outstanding Young Women Researcher Award

Chairpersons: Kiyoshi Takeda (President of JSI / IFReC, The University of Osaka)

Hiroshi Kawamoto (President of the 54th Annual Meeting of the JSI / Institute for Life and Medical Sciences, Kyoto University)

A01-01 Notch signaling regulates homeostasis and function of intestinal intraepithelial lymphocytes

Chieko Ishifune Department of Immunology and Parasitology, Tokushima University Graduate School of Medicine

A01-02 Role of B4galnt2-mediated glycosylation in the mucus barrier and gut homeostasis

Airi Ishibashi Department of Microbiology and Immunology, Graduate School of Medicine, The University of Osaka / Immunology Frontier Research Center: IFReC

A01-03 Modulation of autoimmune diseases via autonomic nervous system dysregulation

Mirei Shirakashi Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University / Department of Clinical Neurology, Graduate School of Medicine, Kyoto University

TOMY DIGITAL BIOLOGY CO., LTD.

12:50 ~ 13:50, Thursday, December 11

Outstanding Young Immunology Researcher Award

A02 Afternoon Seminar 02 Room B: Medium Hall

Chairpersons: Kiyoshi Takeda (President of JSI / IFReC, The University of Osaka)

Hiroshi Kawamoto (President of the 54th Annual Meeting of the JSI / Institute for Life and Medical Sciences, Kyoto University)

A02-01 Mechanistic Insights into ICI Resistance and Biomarker Discovery in Recurrent and Metastatic Head and Neck Squamous Cell Carcinoma

Genki Okumura National Cancer Center

A02-02 The tongue immune hub shapes tissue homeostasis and barrier integrity

Satoshi Koga Laboratory for Innate Immune Systems, Graduate School of Medicine, The University of Osaka/ Laboratory for Innate Immune Systems, RIKEN-IMS / Laboratory for Innate Immune Systems, IFReC, The University of Osaka

A02-03 Fibrosis-driven Pre-Metastatic Niche Formation in Colorectal Cancer Liver Metastasis: Clinical Evidence and Immunological Insights

Satoru Morita Department of Surgery, Keio University School of Medicine / Department of Pathology, Keio University School of Medicine

Nippon Becton Dickinson Company, Ltd.

Evening Seminar

Evening Seminar

18:30 ~ 19:30, Wednesday, December 10

E01 Evening Seminar 01 Room D: 407

Chairperson: Seitaro Nakagawa (Department of Dermatology, Graduate School of Medicine, The University of Osaka)

E01 Pathophysiology and Treatment of Atopic Dermatitis from the Perspective of Skin Function: Focus on Skin Barrier and Inflammation

Takashi Sakai Department of Dermatology, Faculty of Medicine, Oita University

Sanofi K.K. / Regeneron Japan KK

Memorial Session for Dr. Fritz Melchers
(Fritz Melchers 先生を偲ぶ会)

Fritz Melchers 先生を偲ぶ会

12 月 11 日（木）15：00 ～ 15：30
アクリエひめじ 2 階 Room A（大ホール）

司会：渡邊　武（京都大学医生物学研究所　再生免疫学）

15：00 ～ 15：05	Fritz Melchers 先生の経歴のご紹介 渡邊　武（京都大学医生物学研究所 再生免疫学）
15：05 ～ 15：10	ご挨拶 竹田　潔（日本免疫学会 理事長、大阪大学免疫学フロンティア研究センター拠点長）
15：10 ～ 15：15	ご挨拶 岸本忠三（大阪大学 名誉教授、大阪大学免疫学フロンティア研究センター特任教授）
15：15 ～ 15：20	Dr. Fritz Melchers との出会いと思い出 渡邊　武（京都大学医生物学研究所 再生免疫学）
15：20 ～ 15：30	Fritz Melchers 先生と過ごしたベルリンでの年月：研究と人としての学び 河野洋平（広島大学大学院医系科学研究科免疫学 准教授）

− In Memory of Dr. Fritz Melchers −

岸本 忠三 特任教授
Prof. Tadamitsu Kishimoto

追悼 Dr. Fritz Melchers

IFReC 設立時から多大な貢献を頂いた世界的な免疫学者 Fritz Melchers 博士が、去る 2 月 24 日に亡くなりました。Melchers 博士の長年の友人である IFReC の岸本忠三特任教授から追悼のお言葉を頂きました。

本年 2025 年 2 月末に、ベルリンの Max-Plank 研究所にいる友人から、Fritz Melchers が亡くなったという知らせを受け茫然とした。彼とは 1980 年来の友人であると共に、免疫学で B リンパ球の研究分野も同じとしていた仲であった。

1980、1990 年代、私はよくヨーロッパに出かけたが、必ずバーゼルの免疫研究所に立ち寄った。彼は 1980 年から 20 年間、2000 年に、この研究所が閉鎖されるまで所長を務め、この研究所の発展と免疫学の発展に貢献した。私の多くの研究者仲間たちがここで研究した。

もう 1 人、私と同じ B リンパ球の研究仲間であった、NIH 国立衛生研究所の William Paul も 10 年前にこの世を去った。1980 年代、国際免疫学会が開かれた機会に Melchers、Paul と私の 3 人で、B リンパ球を活性化する分子に、順に BSF-1、2、、、と名付けようとしたことを思い出す。

Fritz は、日本の免疫学会も支援し、Melchers' Trave l Award として若い日本の研究者が外国に行く旅費の援助を行ってくれた。Fritz Melchers も William Paul も私より 3 才年上であったが、2 人ともいなくなるとは想像もしなかった。

誰でも 80 才後半になれば、人生を終わっていくのが普通であるが、やはり同じ年代のひとりとして、何とも言い難い寂しさを覚える。しかも 2 人とも、免疫学、特に B リンパ球の研究分野で後世に残る素晴らしい研究成果を挙げた。亡くなっても彼らの残した研究成果は、免疫学の教科書に残っていくであろう。

出典：大阪大学免疫学フロンティア研究センター　年次報告書より

In Memory of Fritz Melchers: A Visionary in Immunology

The International Union of Immunological Societies (IUIS) mourns the passing of Georg Friedrich (Fritz) Melchers, a distinguished immunologist and a former president of IUIS, who passed away on February 24, 2025. Fritz was not only a brilliant scientist but also a visionary leader in the field of immunology. His contributions to B cell biology, particularly his discovery of the “surrogate light chain,” have been fundamental to our understanding of antibody formation. As Director of the Basel Institute for Immunology (1980–2001), he fostered a thriving research environment that produced Nobel laureates and pioneering discoveries. Later, he continued his impactful work at the Max Planck Institute for Infection Biology in Berlin and as Leibniz Chair at the DRFZ, where he inspired generations of scientists.

Beyond his scientific achievements, Fritz was a passionate mentor, an exceptional organizer, and a key figure in shaping the global immunology community. He played a pivotal role in the 7th International Congress on Immunology in Berlin in 1989 and contributed to numerous scientific advisory boards and academies. As a founding figure of the DRFZ, he championed an open and collaborative research culture that continues to influence immunology today. His legacy is one of deep scientific curiosity, dedication, and excellence, and he will be remembered as both a pioneer and a role model for the immunologists of the future.

出典：IUIS News より

日本免疫学会からのお知らせ

特定非営利活動法人日本免疫学会からのお知らせ

1. 学会のホームページアドレス

日本免疫学会から会員の皆様へのお知らせは、ホームページを通じて行っておりますので、随時ご覧ください。

ホームページアドレス：https://www.jsi-men-eki.org/

2. 会員への電子メールによる情報配信について

日本免疫学会では、電子メールにて、会員の皆様への緊急なお知らせやお願いを配信しております。未だメールアドレスを会員データベースに登録されていない方は、至急会員専用ページ（https://www.men-eki.org/meneki_web/jsp/welcome.html）よりご登録いただくか、学会事務局（info@meneki.or.jp）へご連絡ください。

3. 会費納入について

本学会は、10 月 1 日より、新年度（2026 年度 <2025 年 10 月 1 日～ 2026 年 9 月 30 日 >）となりました。新年度の会費は、学会事務局より送付いたしました「年会費用振替用紙」にてお振込みいただくか、会員専用ページ（https://www.men-eki.org/meneki_web/jsp/welcome.html）よりクレジットカードによる会費決済をおこなえますので、より多くの会員の皆様にご利用をお願い申し上げます。クレジットカード決済の際に、年会費と併せて寄附金を納付いただける場合に限り、クレジット手数料は無料（全額学会負担）となります。

新規入会をご希望の方は、学会ホームページ「入会申込」のボタンより、オンラインで手続きをお願いいたします。

4. 2026 年度　特定非営利活動法人日本免疫学会役員 (各五十音順)

理事長：竹田　潔		（2026 年 12 月 31 日迄）
理　事：荒瀬　尚、石井　健、樗木俊聡、大野博司、渋谷和子、新藏礼子、竹内　理		（2026 年 12 月 31 日迄）
石井　優、反町典子、長谷耕二、堀　昌平、三宅健介、安友康二、山崎　晶		（2028 年 12 月 31 日迄）
監　事：黒崎知博、吉村昭彦		（2026 年 12 月 31 日迄）

5. 日本免疫学会へのご寄附のお願い

皆様のご協力のお蔭で、本学会は 2016 年 11 月 7 日をもちまして、認定特定非営利活動法人として本認定されましたが、本認定期間におきましても、より多くの方々（毎年 100 名以上）からの寄附があることが認定継続の要件となっております。

ご存じのとおり、本学会は、2005 年度の NPO 法人化を機に、社会貢献活動にも積極的に取り組み、「免疫ふしぎ未来」をはじめとして、一般社会に対し、より広く免疫学の魅力と重要性をアピールする活動を広げ、免疫研究への一層の理解と、啓蒙に努めております。

その一方で、会員数の減少や近年の物価高騰等により、実質的な学会資産の減少が続いており、これまで、各種事業の見直し等、学会として対応策を講じてまいりましたが、健全な学会運営をとりまく環境は依然厳しい状況です。つきましては、今後、社会へのより一層の貢献のために、各種事業による免疫学の普及啓発事業等の活動をさらに発展させ、本学会の財政を安定させるためにも、より多くの皆様からの寄附を募集いたします。

寄附のお申し込みの詳細につきましては、本学会ホームページ、ご寄附のお願い（https://www.jsi-men-eki.org/kifu/）をご覧ください。クレジットカードでのお支払いも可能です。また、会員専用ページ（https://www.men-eki.org/meneki_web/jsp/welcome.html）より、年会費と併せて寄附金を納付いただければ、クレジット決済手数料は無料（全額学会負担）となりますので、本学会活動にご理解とご賛同をいただき、ご支援・ご協力をいただければ幸いです。

なお、本学会の主たる目的である業務に関係する寄附金は、個人・法人ともに税法上の優遇措置が与えられます。ご不明な点等ありましたら、下記の学会事務局までお問い合わせください。

6. 特定非営利活動法人 日本免疫学会 事務局

〒 101-0024 東京都千代田区和泉町 1-4-2-2F
電話 : 03 (5809) 2019　FAX: 03 (5809) 2089　e-mail: info@meneki.or.jp

(文責 :　事務局長　織田純平)

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Acknowledgements

The Organizing Committee would like to express its appreciation to the following organizations and individuals for their generous support.

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